DVD-HR773
DVD-HR775
DVD-HR777

DVD
user manual

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SAMSUNG

getting started

WARNING

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK).

NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

	CAUTION	
	RISK OF ELECTRIC SHOCK DO NOT OPEN	
This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.	**CAUTION:** TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.	This symbol indicates important instructions accompanying the product.

Do not install this equipment in a confined space such as a bookcase or similar unit.

WARNING : To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.

CAUTION : HDD & DVD RECORDER USES AN INVISIBLE LASER BEAM WHICH CAN CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE HDD & DVD RECORDER CORRECTLY AS INSTRUCTED.

CAUTION

THIS PRODUCT UTILIZES A LASER.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

IMPORTANT NOTE

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug. If it requires replacing, a fuse approved to BS1362 of the same rating must be used.

Never use the plug with the fuse cover omitted if the cover is detachable. If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug. Replacement covers are available from your dealer.

If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance.

However, if there is no alternative to cutting off the plug, remove the fuse and then safely dispose of the plug. Do not connect the plug to a mains jack, as there is a risk of shock hazard from the bared flexible cord.

To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.

The product unit accompanying this user manual is licenced under certain intellectual property rights of certain third parties. This licence is limited to private non-commercial use by end-user consumers for licenced contents.

No rights are granted for commercial use.

The licence does not cover any product unit other than this product unit and the licence does not extend to any unlicenced product unit or process conforming to ISO/IEC 11172-3 or ISO/IEC 13818-3 used or sold in combination with this product unit. The licence only covers the use of this product unit to encode and/or decode audio files conforming to the ISO/IEC 11172-3 or ISO/IEC 13818-3. No rights are granted under this licence for product features or functions that do not conform to the ISO/IEC 11172-3 or ISO/IEC 13818-3.

PRECAUTION

Important Safety Instructions

Read these operating instructions carefully before using the unit. Follow all the safety instructions listed below. Keep these operating instructions handy for future reference.

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding- type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Handling Cautions

- Before connecting other components to this HDD & DVD RECORDER, be sure to turn them all off.
- Do not move the HDD & DVD RECORDER while a disc is being played, or the disc may be scratched or broken, the HDD & DVD RECORDER internal parts may be damaged.
- Do not put a flower vase filled with water or any small metal objects on the HDD & DVD RECORDER.
- Be careful not to put your hand into the disc tray.
- Do not place anything other than the disc in the disc tray.
- Exterior interference such as lightning and static electricity can affect normal operation of this HDD & DVD RECORDER. If this occurs, turn the HDD & DVD RECORDER off and on again with the **STANDBY/ON** button, or disconnect and then reconnect the AC power cord to the AC power outlet. The HDD & DVD RECORDER will operate normally.
- Be sure to remove the disc and turn off the HDD & DVD RECORDER after use.
- Disconnect the AC power cord from the AC outlet when you don't intend to use the HDD & DVD RECORDER for long periods of time.
- Clean the disc by wiping in a straight line from the inside to the outside of the disc.
- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- The Mains plug is used as a disconnect device and shall stay readily operable at any time.

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getting started

Maintenance of Cabinet

For safety reasons, be sure to disconnect the AC power cord from the AC outlet.
- Do not use benzene, thinner, or other solvents for cleaning.
- Wipe the cabinet with a soft cloth.

HDD (Hard Disk Drive)

The hard disk has a high storage density, which enables long recording durations and quick access to written data. However, it can easily be damaged by shock, vibration or dust and should be kept away from magnets. To avoid losing important data, observe the following precautions.
- Do not use the HDD & DVD RECORDER in a place subject to extreme changes in temperature.
- Do not apply a strong shock to the HDD & DVD RECORDER.
- Do not place the HDD & DVD RECORDER in a location subject to mechanical vibrations or in an unstable location.
- Do not place the HDD & DVD RECORDER on top of a heat source.
- Do not disconnect the AC power cord while the power is on.
- Do not attempt to change the hard disk. This may result in a malfunction.

Should the hard disk be damaged, you cannot recover lost data. The hard disk is only a temporary storage space.

Disc Handling

- Use discs with regular shapes. If an irregular disc (a disc with a special shape) is used, this HDD & DVD RECORDER may be damaged.

Holding discs
- Avoid touching the surface of a disc where recording is performed.

DVD-RAM, DVD±RW and DVD±R
- Clean with an optional DVD-RAM/PD disc cleaner (LF-K200DCA1 where available). Do not use cleaners or cloths for CDs to clean DVD-RAM/±RW/±R discs.

DVD-Video, Audio-CD
- Wipe off dirt or contamination on the disc with a soft cloth.

Cautions on handling discs
- Do not write on the printed side with a ball-point pen or pencil.
- Do not use record cleaning sprays or antistatic. Also, do not use volatile chemicals, such as benzene or thinner.
- Do not apply labels or stickers to discs. (Do not use discs fixed with exposed tape adhesive or leftover peeled-off stickers.)
- Do not use scratch-proof protectors or covers.
- Do not use discs printed with label printers available on the market.
- Do not load warped or cracked discs.

Disc Storage

Be careful not to harm the disc because the data on these discs is highly vulnerable to the environment.
- Do not keep under direct sunlight.
- Keep in a cool ventilated area.
- Store vertically.

- Keep in a clean protection jacket.
- If you move your HDD & DVD RECORDER suddenly from a cold place to a warm place, condensation may generate on the operating parts and lens and cause abnormal disc playback. If this occurs, do not connect the plug to the power outlet and wait for two hours. Then insert the disc and try to play back again.

Disc Specifications

This unit allows you to record and playback high quality digital video on DVD-RAM/±RW/±R discs or on the HDD.
You can also edit digital images on DVD-RAM/±RW discs or HDD.

Disc Type

❖ DVD-Video
- A digital versatile disc (DVD) can contain up to 135-minutes of images, 8 audio languages and 32 subtitle languages. It is equipped with MPEG-2 picture compression and Dolby digital surrounding, allowing you to enjoy vivid and clear theatre quality images in the comfort of your own home.
- When switching from the first layer to the second layer of a dual-layered DVD Video disc, there may be momentary distortion in the image and sound. This is not a malfunction of the unit.
- Once a DVD-RW/±R recorded in Video Mode is finalised, it becomes DVD-Video.

❖ Audio CD
- An audio disc on which 44.1 kHz PCM Audio is recorded.
- Plays CD-DA format audio CD-R and CD-RW discs.
- The unit may not be able to play some CD-R or CD-RW discs due to the condition of the recording.

❖ CD-R/-RW
- Use a 700MB (80 minutes) CD-R/-RW disc. If possible, do not use a 800MB (90 minutes) or above disc, as the disc may not play back.
- If the CD-R/-RW disc was not recorded as a closed session, you may experience a delay in the early playback time, all recorded files may not play.
- Some CD-R/-RW discs may not be playable with this unit, depending on the device which was used to burn them. For contents recorded on CD-R/-RW media from CDs for your personal use, playability may vary depending on contents and discs.

❖ DVD±R Disc Playback and Recording
- Once a DVD±R recorded in Video Mode is finalised, it becomes DVD-Video.
- You can record onto the available space on the disc and perform editing functions such as giving titles to discs and programmes and erasing programmes before finalising.
- When programming is erased from a DVD±R, that space does not become available. Once an area on a DVD±R is recorded on, that area is no longer available for recording, whether the recording is erased or not.
- It takes about 30 seconds for the unit to complete recording management information after recording finishes.
- This product optimizes the DVD±R for each recording. Optimizing is carried out when you start recording after inserting the disc or turning on the unit. Recording onto the disc may become impossible if optimizing is carried out too many times.
- Playback may be impossible in some cases due to the condition of recording.
- This unit can play back DVD±R discs recorded and finalised with a Samsung DVD video recorder. It may not be able to play some DVD±R discs depending on the disc and the condition of the recording.

❖ DVD-RW Disc Playback and Recording
- Recording and playback can be performed on DVD-RW discs in both the Video and VR Modes.
- Once a DVD-RW recorded in both the Video and VR Modes is finalised, you cannot perform additional recording.
- Once a DVD-RW recorded in Video Mode is finalised, it becomes DVD-Video.

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- In both modes, playback can be performed before and after finalisation, but additional recording, deleting and editing can not be performed after finalisation.
- If you want to record the disc in VR Mode and then record in V Mode, be sure to execute Format. Be careful when executing Format because all the recorded data may be lost.
- A DVD-RW blank disc is initialized to VR Mode when first initialized.

❖ **DVD+RW Disc Playback and Recording**
- With DVD+RW discs, there is no difference between DVD-Video format(Video mode) and DVD-Video Recording format(VR mode).
- Finalising is generally unnecessary when using a DVD+RW disc.

❖ **DVD-RAM Disc Playback and Recording**
- Ensure that the recording mode is set to VR mode. Otherwise, this product will not be able to play the recording.
- You cannot play a DVD-RAM in most DVD components due to compatibility issues.
- Only DVD-RAM standard Version 2.0. discs can be played in this unit.
- DVD-RAM recorded on this unit may not work with other DVD components. To determine compatibility with these DVD-RAM discs, refer to the user's manual for the player.
- For cartridge type DVD-RAM discs, remove the cartridge and use the disc only.

Disc Copy

Contents Copy Specifications

Contents	HDD → DVD	DVD → HDD
Recorded Video Title	Supported	Supported
Copy Protected Title	Not supported	Not supported
Copy Once Title	Move (Deletes the Title in the HDD after copying)	Not supported

Once "Copy Once programme" has been recorded on the DVD disc, this title cannot be copied to HDD anymore.

But "Copy Once programme" has been recorded on the HDD, this title can be copied to DVD-RW (VR mode) or DVD-RAM.

Contents Copy Specifications

Contents	HDD → DVD or USB	DVD → HDD or USB	USB → HDD or DVD
MP3	Supported	Supported	Supported
JPEG(photo)	Supported	Supported	Supported
DivX	Supported	Supported	Supported
CD-DA	Not supported	Supported	Not supported

- Disc(CD-R/CD-DA/CD-RW/DVD-RAM, DVD±R(Finalise)/DVD+RW/DVD-RW(Finalise)) → HDD or USB
- HDD → DVD-R, DVD-RW(V) or USB
- USB → HDD or DVD-R, DVD-RW(V)
- PTP USB is not available when you copy to USB.
- If the disc is finalised through Disc Manager, it can be compatible with PC as a disc with a UDF file system.

- Many DVD discs are encoded with copy protection. Because of this, you should only connect your HDD & DVD RECORDER directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.
- This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorised by Macrovision Corporation, is intended for home and other limited viewing uses only unless otherwise authorised by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Protection

This HDD & DVD RECORDER can allow you to protect the contents of your discs, as described below.

- Programme-protected: See page 80 "Locking (Protecting) a Title"
- Disc-protected: See page 94 "Disc Protection"
  - ❈ DVD-RAM/±RW/±R discs that are incompatible with the DVD-VIDEO format cannot be played with this product.
  - ❈ For more information on DVD recording compatibility, consult your DVD-RAM/±RW/±R manufacturer.
  - ❈ Use of poor quality DVD-RAM/±RW/±R discs may cause following unexpected problems including, without limitation, recording failure, loss of recorded or edited materials or damage to the HDD & DVD RECORDER.

Disc Format

❖ Using MP3 disc

- CD-R/-RW, DVD-RAM/±RW/±R, HDD, USB with MP3 files recorded with UDF, ISO9660 or JOLIET format can be playbacked.
- Only MP3 files with the ".mp3" or ".MP3" extension can be played.
- For MP3 files recorded with a VBR(Variable Bit Rates), from 32 Kbps to 320 Kbps, the sound may cut in and out.
- Playable bit-rate range is from 56 Kbps to 320 Kbps.
- Each folder can have up to 500 items including files and sub folders.

❖ Using JPEG disc

- CD-R/-RW, DVD-RAM/±RW/±R, HDD, USB recorded with UDF, ISO9660 or JOLIET format can be playbacked.
- Only JPEG files with the ".jpg" or ".JPG" extension can be displayed.
- Each folder can have up to 500 items including files and sub folders.
- MOTION JPEG and progressive JPEG are not supported.

❖ Using DivX disc

- Disc : CD-R/-RW, DVD-RAM/±RW/±R, HDD, USB
- Video File with following extensions can be played. : .avi, .divx, .AVI, .DIVX
- DivX Video (Codec) Format : DivX 3.11 DivX 4.x
  DivX 5.x (without QPEL and GMC)
- DivX Audio (Codec) Format : MP3, MPEG1 Audio Layer 2, LPCM, AC3, DTS
- Supported subtitle file formats: .smi, .srt, .sub, .psb, .txt, .ass
- Each folder can have up to 500 items including files and sub folders.
- You cannot play back the disc that is larger than a 720 x 576 pixel resolution.

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Do not use the following discs!

- LD, CD-G, CD-I, CD-ROM and DVD-ROM discs should not be used in this product.

  [Note]
  Disc types that can be played : CD/CD-R/-RW/MP3/JPEG/DVD-Video/DVD-RAM/±RW/±R.
  For a DVD-RW/±R disc, which has been recorded in Video Mode on another component, it can play only when finalised.

- Some commercial discs and DVD discs purchased outside your region may not be playable with this product. When these discs are played, either "No disc." or "Please check the regional code of the disc." will be displayed.

- If your DVD-RAM/±RW/±R discs is an illegal copy or is not in DVD video format, it may also not be playable.

❖ Disc compatibility
- Not all brands of discs will be compatible with this unit.

❖ Compatible USB Devices at host port
- The USB host port acts as the one of desktop or laptop computer.
  - ✱ This product is compatible with mass storage devices(removable storage devices) and PTP devices (such as digital still cameras)
- The USB host port provides USB2.0 connectivity and also backward compatibility with USB1.1 (USB1.0) devices.
- Supported devices at host port
  - ✱ Mass Storage Devices
    - Digital Still Camera
    - MP3 Player
    - Memory stick
    - Card Reader (One or Multi-slot Card Reader)
    - External Hard disk drive : Only supports FAT32 formatted HDD.
    - Others removable storage devices.
  - ✱ PTP (Picture Transfer Protocol) devices
    - Digital Still Camera (in PTP mode among USB connection modes)
- This product only supports FAT16/32 file system
- This product supports up to maximum 4 partitions
- Notice (Caution)
  - ✱ If you happen to use a bad quality USB cable, the USB device might not be recognized.
  - ✱ The compatibility with MP3 players is somewhat restricted.
    - This product can playback only mp3 format contents.
    - This product does not support the audio contents encrypted by DRM (Digital Right Management)
  - ✱ Either USB hub device or hub extension connectivity is not supported.
  - ✱ There are lots of different kinds of USB devices.
    Some of the USB devices mentioned above might not be compatible with this product.
    In other words, the USB host function of this product does not guarantee the compatibility with all of USB devices.

• TPL (Target Peripheral List)
Since this product is not a Windows XP but a embedded USB host system, naturally the supported USB devices cannot help being limited.
The USB host functionality and compatibility of this product have been proved with following items. (Except these items , we expect lots of other USB devices will work well with this product)

✽ DSC (Digital Still Camera)

Vendor	Brand
Samsung	VP-MS11, S800, Pro815, V20, V10, D60, UCA5
Sony	DSC-W50, DSC-R1, DSC-P200, DSC-P150
Olympus	C-70 zoom, SP-700, FE5500, C-470Z
Nikon	Coolpix 7900, Coolpix-p3, Coolpix S2
Panasonic	DMC-FX01, DMC-LX1S, DMC-FZ5
Canon	IXUS 60, IXUS 600, PowerShot A700, IXUS 700, A620, S80
Fuji	Finepix-F700

✽ MP3

Vendor	Brand
i-river	N11, T30, T10, Mplayer
Samsung	YP-T8, YP-U2, YP-T9, YP-P2

✽ Others

Product	Vendor	Brand
PMP	COWON	A2
External HDD	DATAgram	DHC-350
Card Reader	Unicon	UC-601R

▧ ▪ Among MP3 players in the list above, those that do not use Mass Storage Class are not supported.

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GENERAL FEATURES

This unit allows you to record and playback high quality digital video on DVD-RAM/±RW/±R discs or on the HDD. You can also edit digital images on DVD-RAM/±RW discs or HDD.

HDD Recording
- DVD-HR773
  You can record up to Approx. 264 hours of video (in EP mode (8 Hours)) on the internal 160GB (gigabyte) hard disk (HDD).
- DVD-HR775
  You can record up to Approx. 421 hours of video (in EP mode (8 Hours)) on the internal 250GB (gigabyte) hard disk (HDD).
- DVD-HR777
  You can record up to Approx. 534 hours of video (in EP mode (8 Hours)) on the internal 320GB (gigabyte) hard disk (HDD).

With both recordable DVD and a high-capacity HDD in the same recorder, you have the flexibility to keep recordings on the HDD for quick access anytime, or record to DVD for archiving or playing on other DVD players.

Copy between HDD and DVD
You can copy recordings from the HDD to recordable DVD, or from DVD to the HDD.

You can only copy in the same record mode as the source title.

Simultaneous Recording and Playback
Playback and recording for both the DVD and the built-in hard disk drive (HDD) are completely independent. For example you can record a broadcast programme to either a recordable DVD or the HDD, while watching another recording you already made on the same DVD or on the HDD.

Automated Quality Adjustment for Timer Recording
If FR mode is selected, the video quality is adjusted automatically so that all video for the scheduled time can be recorded onto the free disc space. (See page 75)

Copying data from a digital camcorder using a DV input jack
Record DV Device video onto HDD and DVD-RAM/ ±RW/±R discs using the DV input jack (IEEE 1394-4pin/4pin). (See page 71)

High quality progressive scan
Progressive scanning provides high resolution and flicker free video. The 10-bit 54-MHz DAC and 2D Y/C Separating Circuitry provides the highest image playback and recording quality. (See page 42)

DivX Certification
DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified or DivX Ultra Certified device that plays DivX video.

HDMI (High Definition Multimedia Interface)
HDMI reduces picture noise by allowing a pure digital video/audio signal path from the HDD & DVD RECORDER to your TV.
This HDD & DVD RECORDER supports 576P, 720P, 1080i and 1080P.

Anynet+(HDMI CEC)
Anynet+ is a function that can be used to operate the recorder using a Samsung TV remote control, by connecting the HDD & DVD RECORDER to a SAMSUNG TV using an HDMI Cable. (This is only available with SAMSUNG TVs that support Anynet+.)

EZ Record Mode
This function allows you Initialise and Finalise a disc automatically. (See page 46)

USB Interface for Data Transfer
You can transfer JPEG, MP3 and DivX file of the MP3 player, USB memory or digital camera to a HDD & DVD RECORDER using the USB interface. You can also copy JPEG, MP3 and DivX file of the HDD &DVD RECORDER to MP3 player, USB memory or digital camera using the USB interface.

BEFORE READING THE USER'S MANUAL

Make sure to check the following terms before reading the user manual.

Icons that will be used in manual

Icon	Term	Definition
HDD	HDD	This involves a function available on the HDD.
DVD-VIDEO	DVD	This involves a function available on DVD or DVD±R/-RW(V) discs that have been finalised.
DVD-RAM	RAM	This involves a function available on DVD-RAM.
DVD-RW	-RW	This involves a function available on DVD-RW.
DVD-R	-R	This involves a function available on DVD-R.
DVD+RW	+RW	This involves a function available on DVD+RW.
DVD+R	+R	This involves a function available on DVD+R.
Audio CD	CD-DA	This involves a function available on a data CD (CD-R or CD-RW).
JPEG	JPEG	This involves a function available on CD-R/-RW, DVD±R/±RW/-RAM discs or HDD.
MP3	MP3	This involves a function available on CD-R/-RW, DVD±R/±RW/-RAM discs or HDD.
DivX	DivX	This involves a function available on CD-R/-RW, DVD±R/±RW/-RAM discs or HDD.
!	Caution	This involves a case where a function does not operate or settings may be cancelled.
NOTE	NOTE	This involves tips or instructions on the page that help each function operate.
One-Touch button	One-Touch button	A function that can be operated by using only one button.
USB	USB	This involves a function available on USB.

About the use of this user's manual

1) Be sure to be familiar with Safety Instructions before using this product. (See pages 2~9)

2) If a problem occurs, check the Troubleshooting. (See pages 98~99)

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HOW TO USE THE HDD & DVD RECORDER

Step 1: Select the disc type or HDD

Please check available disc type before recording.

If you want to repeatedly record on the same disc or you want to edit the disc after recording, select a rewritable DVD±RW or DVD-RAM type disc. If you want to save a recording without any changes, choose a non-rewritable DVD±R. You can record files directly to the built-in HDD or edit a recorded file.

Step 2: Format the disc to start recording

Unlike a VCR, the HDD & DVD RECORDER automatically starts formatting when an unused disc is inserted. This is required for the preparation of recording on a disc.

Using the HDD

Formatting unnecessary.

Using a DVD-RAM

This type of disc can be formatted in DVD-Video Recording format (VR mode). You can edit recorded images and create a playlist in a specific sequence according to your requirements.

Using a DVD-RW

This type of disc can be formatted in either DVD-Video format (V mode) or DVD-Video Recording format (VR mode). For an unused disc, a message that asks whether to initialize a disc or not. If you select "DVD-VR" or "DVD-V", initialising will be started.
You can play a Video mode disc on various DVD components. A VR mode disc allows more varied editing.

Using a DVD-R

Formatting disc is unnecessary and only V Mode Recording is supported. You can play these types of discs on various DVD components only when they have been finalised.

Using a DVD+RW

• For an unused DVD+RW disc, a message that asks whether to format a disc or not. If you select "DVD+RW", formatting will be started.

Using a DVD+R

This type of disc will be formatted automatically.

Step 3 : Recording

There are two different recording methods, Direct Recording and Timer Recording. Timer recording is classified as follows:

Recording mode : XP (high quality mode), SP (standard quality mode), LP (long recording mode), and EP (extended mode) according to the recording mode. When recording is set in the FR mode, the best quality picture is recorded with regards to the remaining time on the disc.

Step 4 : Playing

You can select the title you want to play in a displayed menu and then immediately start playback.

A DVD consists of sections, called titles, and sub- sections, called chapters.

Step 5: Editing a recorded disc

Editing on discs is easier than conventional video tapes. The HDD & DVD RECORDER supports many different edit functions, possible only with DVDs and HDD.

With a simple and easy edit menu, you can operate various edit functions, such as delete, copy, rename, lock, etc., on a recorded title.

Creating a playlist (DVD-RAM/-RW in VR mode, HDD)
With this HDD & DVD RECORDER, you can create a new playlist on a disc and edit it without the original, pre-existing recording.

Step 6 : Finalising & Playing on other DVD components

To play your DVD on other DVD components, finalising may be necessary. First, finish all editing and recording operations, then finalise the disc.

When using a DVD-RW disc in VR Mode
DVD discs recorded in VR mode can only be played back in DVD recorders, not players.

When using a DVD-RW disc in Video Mode
The disc should be finalised first to enable playback on anything other than this HDD & DVD RECORDER. No more editing or recording can be made on the disc once it has been finalised.
To enable recording on the disc again, the disc must be unfinalised.

When using a DVD±R disc
You should finalise the disc to play it on a component other than this HDD & DVD RECORDER. You cannot edit or record on the disc once it has been finalised.

✍ ▪ You can finalise the disc automatically using EZ Record function. (See page 46)

getting started

UNPACKING

Accessories

Check for the supplied accessories below.

HDMI Cable	Video/Audio Cable	RF Cable for TV	
Batteries for Remote Control (AAA Size)	Instruction Manual	Quick Guide	Remote Control
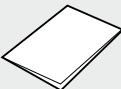
Preparing the Remote Control

Install Batteries in the Remote Control
- Open the battery cover on the back of the remote control.
- Insert two AAA batteries. Make sure that the polarities (+ and –) are aligned correctly.
- Replace the battery cover.

If the remote does not operate properly:
- Check the polarity +/– of the batteries (Dry-Cell)
- Check if the batteries are drained.
- Check if remote sensor is blocked by obstacles.
- Check if there is any fluorescent lighting nearby.

Dispose of batteries according to local environmental regulations. Do not put them in the household trash.
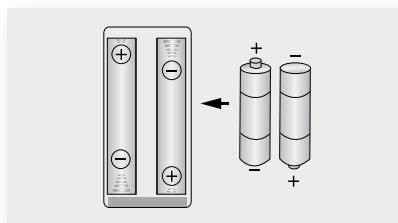
To determine whether your television is compatible, follow the instructions below.
1. Switch your television on.
2. Point the remote control towards the television.
3. Press and hold the **TV STANDBY/ON** button and enter the two-figure code corresponding to the brand of your television, by pressing the appropriate number buttons.

Controllable TV Codes

BRAND	BUTTON
SAMSUNG	01, 02, 03, 04, 05, 06, 07, 08, 09
AIWA	82
ANAM	10, 11, 12, 13, 14, 15, 16, 17, 18
BANG & OLUFSEN	57
BLAUPUNKT	71
BRANDT	73
BRIONVEGA	57
CGE	52
CONTINENTAL EDISON	75
DAEWOO	19, 20, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34
EMERSON	64
FERGUSON	73
FINLUX	06, 49, 57
FORMENTI	57
FUJITSU	84
GRADIENTE	70
GRUNDIG	49, 52, 71
HITACHI	60, 72, 73, 75
IMPERIAL	52
JVC	61, 79
LG	06, 19, 20, 21, 22, 78
LOEWE	06, 69
LOEWE OPTA	06, 57
MAGNAVOX	40
METZ	57
MITSUBISHI	06, 48, 62, 65
MIVAR	52, 77
NEC	83
NEWSAN	68

BRAND	BUTTON
NOBLEX	66
NOKIA	74
NORDMENDE	72, 73, 75
PANASONIC	53, 54, 74, 75
PHILIPS	06, 55, 56, 57
PHONOLA	06, 56, 57
PIONEER	58, 59, 73, 74
RADIOLA	06, 56
RADIOMARELLI	57
RCA	45, 46
REX	74
SABA	57, 72, 73, 74, 75
SALORA	74
SANYO	41, 42, 43, 44, 48
SCHNEIDER	06
SELECO	74
SHARP	36, 37, 38, 39, 48
SIEMENS	71
SINGER	57
SINUDYNE	57
SONY	35, 48
TELEAVA	73
TELEFUNKEN	67, 73, 75, 76
THOMSON	72, 73, 75
THOMSON ASIA	80, 81
TOSHIBA	47, 48, 49, 50, 51, 52
WEGA	57
YOKO	06
ZENITH	63

● GETTING STARTED

Result: If your television is compatible with the remote control, it will switch off.
 It is now programmed to operate with the remote control.

 ▪ If several codes are indicated for your television brand, try each one in turn until you find one that works.

 ▪ If you replace the remote control's batteries, you must set the brand code again.

Then you can control the television using the following buttons after pressing the TV button.

Button	Function
TV STANDBY/ON	Used to switch the television on and off.
INPUT SEL.	Used to select an external source.
TV VOL (+ / –)	Used to adjust the volume of the television.
PROG (∧ / ∨)	Used to select the desired channel.
TV MUTE	Used to toggle the sound on and off.
Number	Used to input number directly.

 ▪ The functions listed above does not necessarily work on all televisions. If you encounter problems, operate the television directly.

getting started

DESCRIPTION

Front Panel
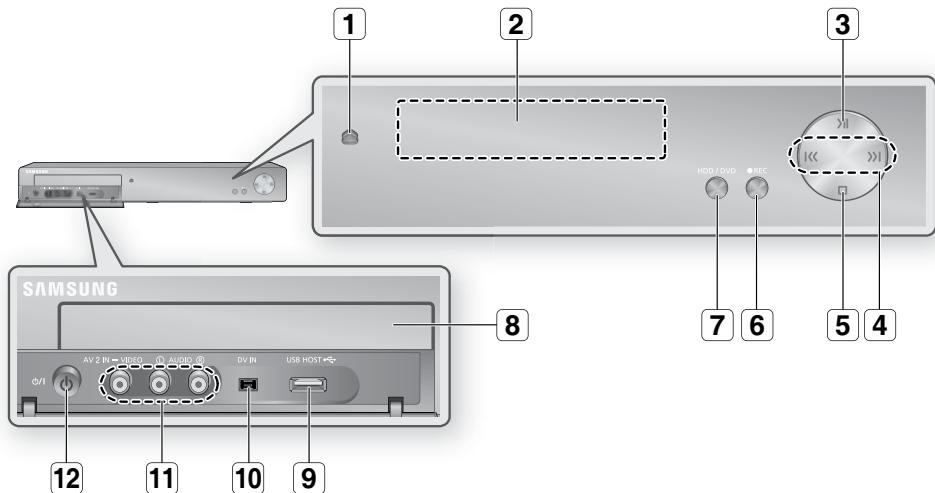
1	**OPEN/CLOSE button**	Opens and closes the disc tray.
2	**DISPLAY**	Displays the playing status, time, etc.
3	**PLAY/PAUSE button**	Plays a disc or pauses playback.
4	**SEARCH/SKIP buttons**	Goes to the next title/chapter/track or goes back to the previous title/chapter/track. (Playback mode) Select TV preset Channels. (Stop mode)
5	**STOP button**	Stops disc playback.
6	**REC button**	Starts recording.
7	**HDD/DVD button**	Selects HDD/DVD mode.
8	**DISC TRAY**	Opens to accept a disc.
9	**USB HOST**	Connects to digital still camera, MP3 player, memory stick, Card reader, external HDD or other removable storage devices
10	**DV-INPUT**	Connects to external digital equipment with a DV jack. (such as a camcorder)
11	**AV 2 INPUT**	Connects to external equipment.
12	**STANDBY/ON button**	Turns the HDD & DVD Recorder on and off .

Rear Panel

Fan
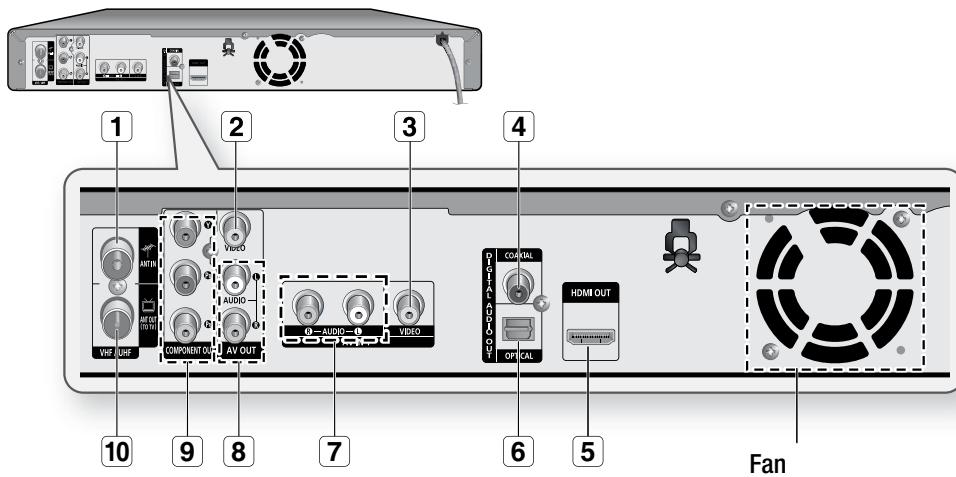
The fan always revolves when the power is on. Ensure a minimum of 10 cm clear space on all sides of the fan when installing the product.

1	In from aerial connector	Connects RF cable from antenna.
2	VIDEO OUT	Connects the input of external equipment using a Video cable.
3	AV 1 VIDEO IN	Connects the output of external equipment using an video cables.
4	DIGITAL AUDIO OUT(COAXIAL)	Connects to an amplifier having a digital coaxial audio input jack.
5	HDMI OUT	Connects to equipment having HDMI input.
6	DIGITAL AUDIO OUT(OPTICAL)	Connects to an amplifier having a digital optical audio input jack.
7	AV 1 AUDIO IN	Connects the output of external equipment using an audio cables.
8	AUDIO OUT	Connects to the audio input of external equipment using audio cables.
9	COMPONENT VIDEO OUT	Connects to equipment having Component video input.
10	Out to TV connector	Connects RF cable to TV antenna input.

getting started

Front Panel Display
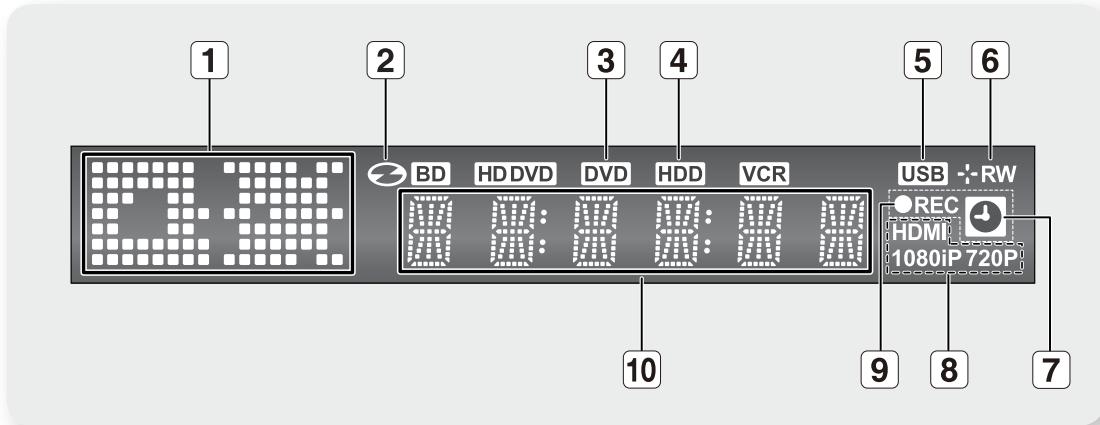
1	Playback-related, Open/Close indicator	Lights when playback-related and open/close buttons are selected.
2	In Disc Indicator	Lights status icon.
3	DVD VIEW Indicator	Lights when DVD mode is selected.
4	HDD VIEW Indicator	Lights when HDD mode is selected.
5	USB VIEW Indicator	Lights when USB mode is selected.
6	Disc Media Indicator	Lights when a DVD±RW/±R disc is loaded.
7	TIMER Indicator	Lights to indicate the timer record mode.
8	HDMI Indicator	Lights to indicate when HDMI is connected.
9	REC Indicator	Lights in the record mode.
10	STATUS Indicator	Playing time/clock/current status indicator.

TOUR OF THE REMOTE CONTROL

Your HDD & DVD RECORDER remote control will work with Samsung televisions and compatible brands.

Installing batteries in the Remote Control

1. **Lift the cover at the back of the remote control upward as shown.**

2. **Install two AAA size batteries.**
   Make sure to match the "+" and "–" ends of the batteries with the diagram inside the compartment.

3. **Replace the cover.**
   Assuming typical TV usage, the batteries last for about one year.

TV button
Press this to operate TV.

STANDBY/ON button
Press to turn the HDD & DVD RECORDER On/Off.

NUMBER buttons
Used to input number directly.

TV/DVD button(Not available)
Press TV/DVD button to select the Video input on your TV.

SUBTITLE button
Press this to switch the DVD's subtitle language.

Playback-related Buttons
Forward/Rewind, Search, Skip, Stop, Play/Still.

TV VOL button
TV volume adjustment.

MENU button
Brings up the HDD & DVD RECORDER's setup menu.

INFO button
This will display current setting or disc status.

TITLE LIST/DISC MENU button
Use this to enter the View Recording list/disc menu.

A, B, C, D button
Allows access to common function of HDD & DVD RECORDER.

COPY button
Press this when you copy DVD to HDD and vice-versa.
You can also copy files from HDD or DVD to the USB storage devices and vice-versa.

REC button
Use to make a recording on HDD/DVD-RAM/±RW/±R discs.

MARKER button
Use this to bookmark a position while playing a disc.

SELECT
(DVD, HDD, USB)

OPEN/CLOSE button
To open and close the disc tray.

TV STANDBY/ON button
Press to turn the TV On/Off.

INPUT SEL. button
Select input signal in external input mode (PROG, AV1, AV2 or DV input)

TV MUTE/AUDIO button
In TV mode, this operates as sound mute.
Use this to access various audio functions on a disc. (DVD mode)

PROG button
Use this to select a TV programme.

RETURN button
Press to return to the previous menu.

OK/DIRECTION buttons (▲ ▼ ◄ ► buttons)
Used to select or move up/down, left/ right when setting the menu function.

EXIT button
Press to exit the setup screen.

PLAY LIST/TITLE MENU button
Use this to return to the Title menu, or to view the recorded files list.

REC MODE button
Use this to set the desired Recording time and picture quality. (XP/SP/LP/EP).

REC PAUSE/TIME SHIFT button
Use this to pause during recording.
In HDD mode, use this to operate Time shift function.

TIMER/REPEAT button
Press to directly enter the Timer Recording Mode menu.
Allows you to repeat a title, chapter, track or disc.

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connecting & setting up

CONNECTING THE HDD & DVD RECORDER

1. Disconnect the aerial cable from your TV and connect it to In from aerial connector on the rear panel of the HDD & DVD RECORDER.

2. Connect Out to TV connector of the HDD & DVD RECORDER and the aerial input of your TV using the supplied aerial cable.

3. Use the Video/Audio Cable to connect ANALOG AUDIO OUT(R/L)/VIDEO OUT jacks on the HDD & DVD RECORDER to the Audio &Video jacks on the TV.

4. Plug in the HDD & DVD RECORDER and TV

5. Turn on the HDD & DVD RECORDER and TV.

6. Press the **INPUT SEL.** button on your TV remote control until the Video signal from the HDD & DVD RECORDER appears on the TV screen.
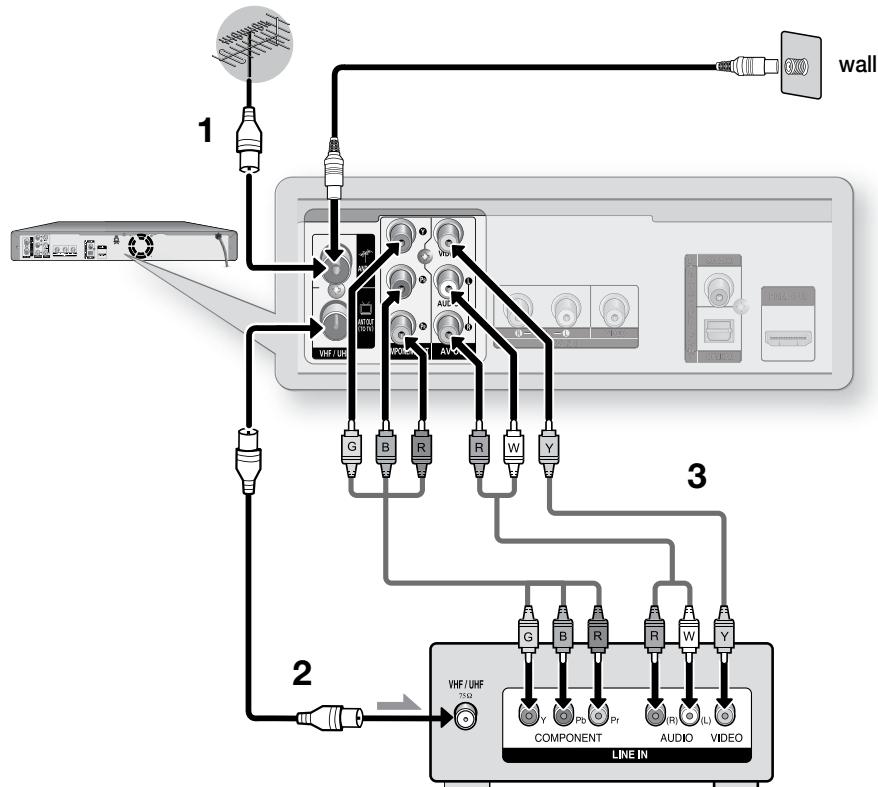
- The RF cable connection of this product sends only signals of TV.You must connect Audio/ Video cables to watch a DVD from your HDD & DVD RECORDER.

- Power off HDD & DVD RECORDER, then you can watch programmes received through 2 RF cable.

- If you set "Power save mode" on and power off Recorder, TV channel signal from ANT OUT of DVD-Recorder may be a little noisy.
  So, in this case, set "Power save mode" off, then you see the clean channel in TV.

OTHER TYPE OF CONNECTING THE VIDEO OUTPUT CABLE

There are several ways to output video signal. Select one of the following video connecting that best suits you below.

• **Case 1** : Connecting to a Video (Composite) output jack
• **Case 2** : Component Video output jacks

Component video and Progressive Output Modes

• Component video output is available only if your TV supports Component video input, respectively.
If Component video output does not work, check the TV connections and the TV input selection settings.

• Compared to standard interlaced video, progressive scan doubles the amount of video lines fed to your TV, resulting in a more stable, flicker-free, clear image than interlaced video. This is only available with TVs that support progressive scan.

• Progressive Scan Output (576P)
Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture, in case of 576 progressive scan picture problems, It is recommended that the user switch the connection to the 'standard definition' output. If there are questions regarding our TV set compatibility with this model 576P HDD & DVD RECORDER, please contact our customer service centre.

Case 1 : Connecting to a Video (Composite) output jack

1. Connect a video (Yellow) cable between the VIDEO (yellow) OUT jack on HDD & DVD RECORDER and VIDEO (yellow) INPUT jack on your TV (or AV amplifier).
    • You will enjoy regular quality images.

2. Connect audio cables (white and red) between the AUDIO OUT jacks on the HDD & DVD RECORDER and AUDIO IN jacks on TV (or AV amplifier). (See pages 25~26)

Video/Audio Cable

TV

Yellow   Red   White
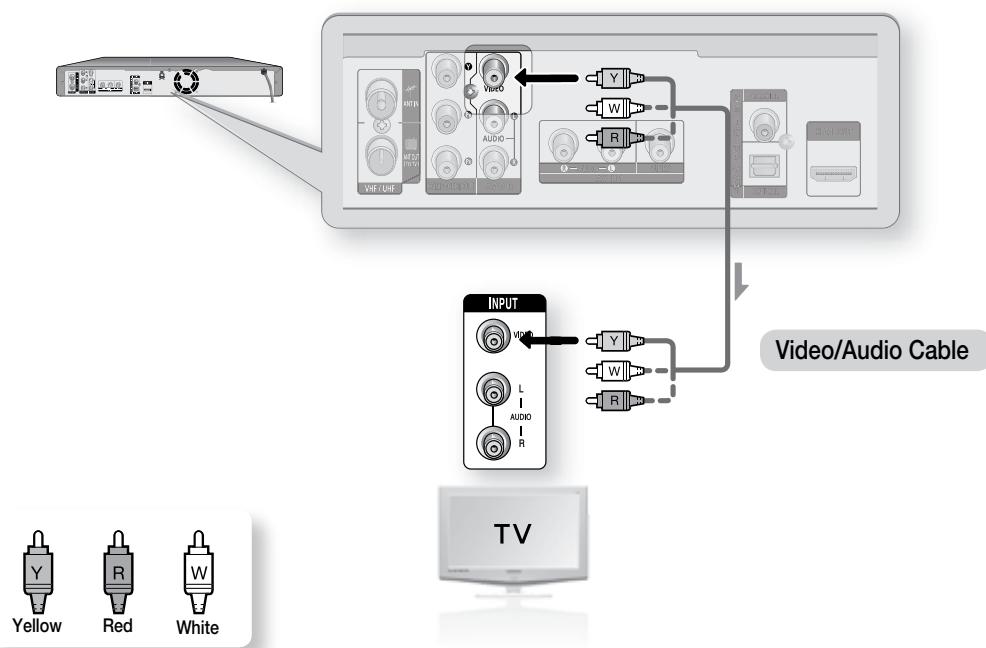
connecting & setting up

Case 2 : Component Video output jacks

1. Connect Component video cables(not supplied) between the COMPONENT OUT(Y, P$_B$, P$_R$) jacks on HDD & DVD RECORDER and COMPONENT IN(Y, P$_B$, P$_R$) jacks on your TV.
   • You will enjoy high quality and accurate colour reproduction images.

2. Connect audio cables (white and red) between the AUDIO OUT jacks on the HDD & DVD RECORDER and AUDIO IN jacks on TV (or AV amplifier).
   (See pages 25~26).

3. After connecting, refer to the page 42.

COMPONENT

Y G
P$_B$ B
P$_R$ R

TV

G B R
Green Blue Red
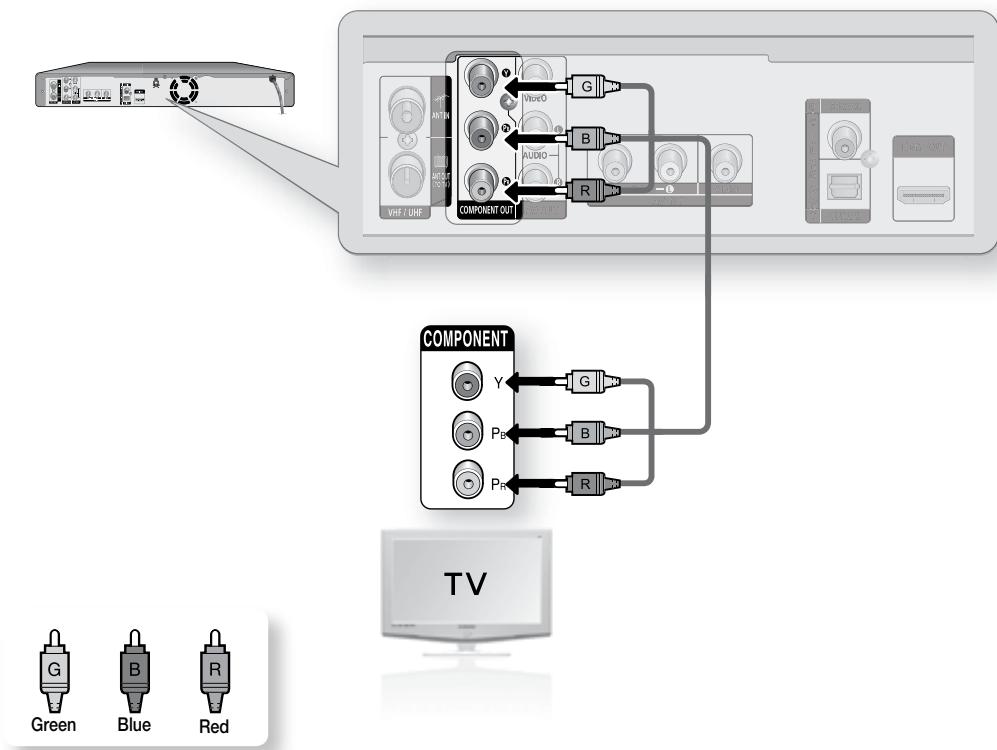
✎ ▪ Make sure that the colour coded connections match. The Y, P$_B$, P$_R$ component output jacks of your HDD & DVD RECORDER must be connected to the exact corresponding component input jacks on your TV.

▪ Progressive setting is only available when the Video Out is set to Component.
(See page 42)

OTHER TYPE OF CONNECTING THE AUDIO OUTPUT CABLE

There are several ways to connect your HDD & DVD RECORDER. Select the audio connection that best suits you below.

- **Case 1** : Connecting to your TV
- **Case 2** : Connecting to a stereo amplifier with AV output jacks
- **Case 3** : Connecting to an AV amplifier with a digital output jack

Case 1 : Connecting to your TV

If your TV has audio input jacks, use this connection.

● CONNECTING & SETTING UP

English _**25**
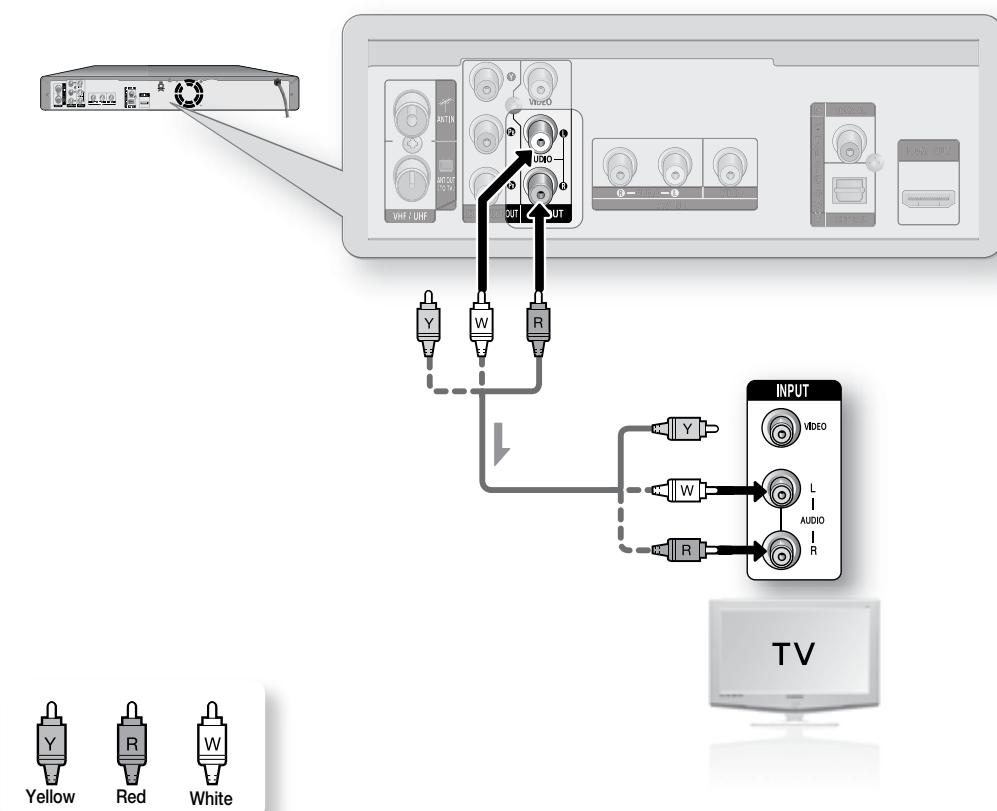
connecting & setting up

Case 2 : Connecting to a stereo amplifier with AV output jacks

If your stereo amplifier only has AUDIO INPUT jacks (L and R), use the AUDIO OUT jacks

ANALOG AUDIO IN
R₁ L₁

R Red   W White

Front(L) speaker   Front(R) speaker
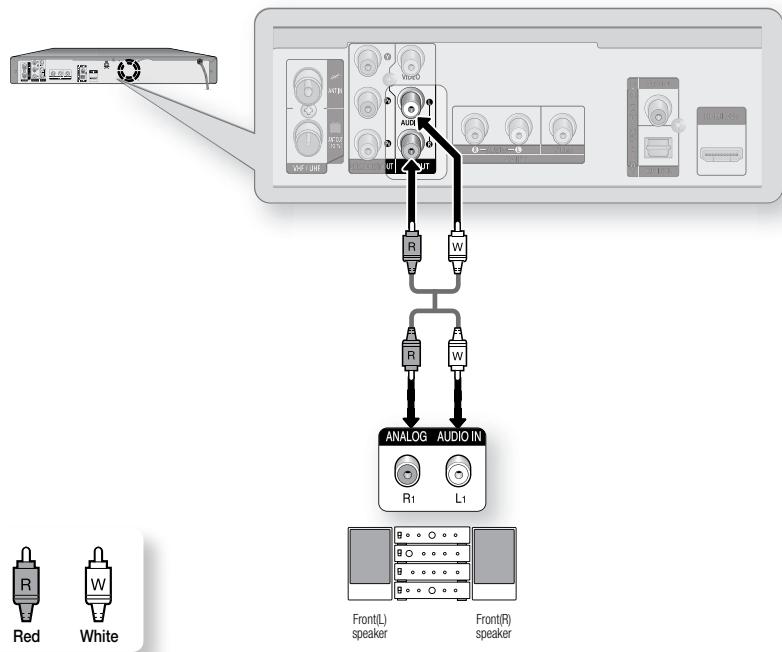
Case 3: Connecting to an AV amplifier with a digital output jack

If your AV amplifier has a Dolby Digital, MPEG2 or DTS decoder and a digital input jack, use this connection. To enjoy Dolby Digital, MPEG2 or DTS sound, you will need to set up the audio settings. According to your amplifier, connect to an optical cable or a coaxial cable. (See pages 39~)

DIGITAL AUDIO IN
COAXIAL   OPTICAL

Rear(L)   Rear(R)
Front(L)   Front(R)
Subwoofer   Centre
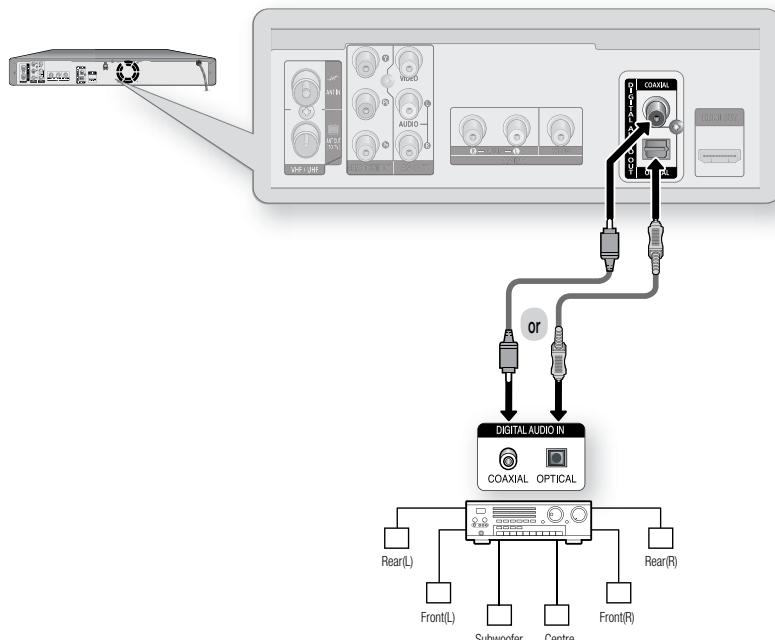
CONNECTING HDMI/DVI TO A TV

If your TV has a HDMI/DVI input, connect HDMI/DVI Adapter cable to a TV. You will enjoy the best quality images and sounds.

- **Case 1** : Connecting to a TV with HDMI Jack
- **Case 2** : Connecting to a TV with DVI Jack

Case 1 : Connecting to a TV with HDMI Jack

- Using the HDMI cable connect the HDMI OUT jack on the rear of the HDD & DVD RECORDER to the HDMI IN jack of your TV.
- Press the input selector on your TV remote control until the HDMI signal from the HDD & DVD RECORDER appears on your TV screen.
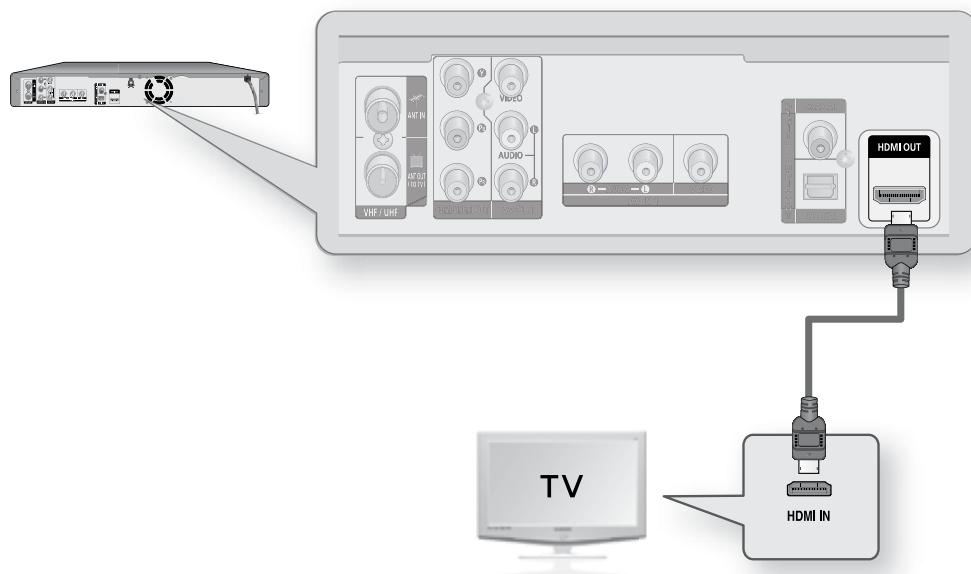
> ✎ ▪ If the HDD & DVD RECORDER is connected to your TV in HDMI 1080p output mode, you must use High speed(category2) HDMI cable.

Case 2 : Connecting to a TV with DVI Jack

- Using the DVI Adapter cable (not supplied), connect the HDMI OUT jack on the rear of the HDD & DVD RECORDER to the DVI IN jack of your TV.
- Using the audio cables, connect the AUDIO (red and white) OUT jacks on the rear of the HDD & DVD RECORDER to the AUDIO (red and white) IN jacks of your TV. Turn on the HDD & DVD RECORDER and TV.
- Press the input selector on your TV remote control until the DVI signal from the HDD & DVD RECORDER appears on your TV screen.

connecting & setting up
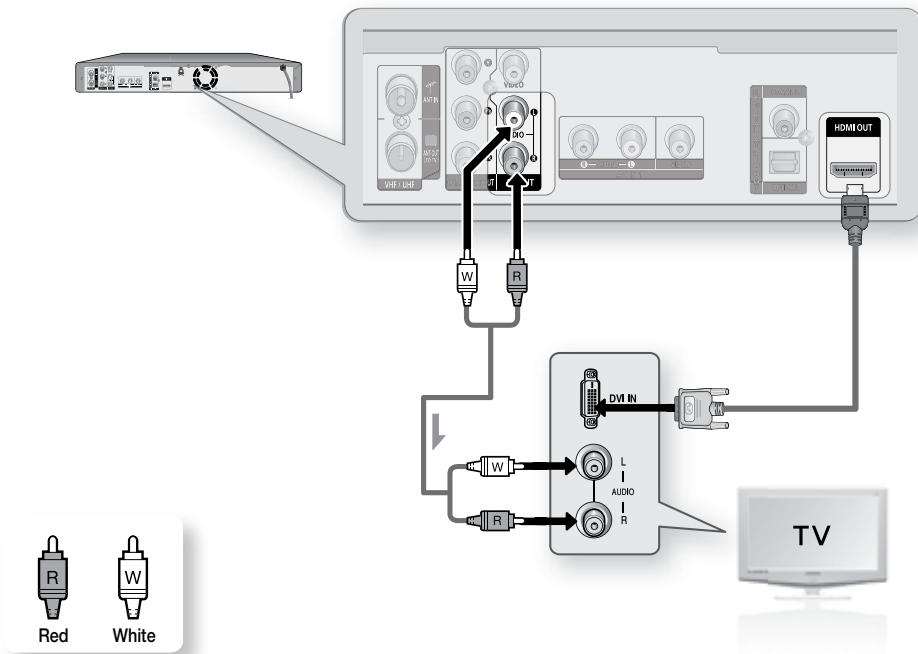
R	W
Red	White

⚠ ■ To use HDMI cable, make the Audio/Video connection before plugging in the power cord or after finishing the "Plug & Play Setup." Do not connect the HDMI cable while the "Plug & Play Setup" is progressing.

■ Progressive scan automatically activates when HDMI is connected.

■ If TV/HDMI Receiver does not support DTS, Audio output is not available when you play disc in DTS format.

■ You can switch from the HDMI output to other output only in stop mode.

■ If you use an HDMI cable to connect a Samsung TV to the HDD & DVD RECORDER, you can operate the recorder using the TV remote control. (This is only available with SAMSUNG TVs that support Anynet+(HDMI-CEC).) (See page 37)

■ Please check the _Anynet⁺_ logo (If your TV has an _Anynet⁺_ logo, then it supports Anynet+ function.)

✍ ■ **HDMI (High Definition Multimedia Interface)**
HDMI is an interface to enable the digital transmission of video and audio data with just a single connector. Since HDMI is based on DVI, it is completely compatible with DVI. The only difference between HDMI and DVI is that HDMI supports multi-channel audio. Using HDMI, the HDD & DVD RECORDER transmits a digital video and audio signal and displays a vivid picture on a TV having an HDMI input jack.

■ **HDMI connection description**
HDMI connector - Both uncompressed video data and digital audio data (LPCM or Bit Stream data).

- Though the HDD & DVD RECORDER uses a HDMI cable, the HDD & DVD RECORDER outputs only a pure digital signal to the TV.
- If TV does not support HDCP (High -bandwidth Digital Content Protection), snow noise appears on the screen.

■ **Why does Samsung use HDMI?**
Analog TVs require an analog video/audio signal. However, when playing a DVD, the data transmitted to a TV is digital. Therefore either a digital-to-analog converter (in the HDD & DVD RECORDER) or an analog-to-digital converter (in the TV) is required. During this conversion, the picture quality is degraded due to noise and signal loss. HDMI technology is superior because it requires no D/A conversion and is a pure digital signal from the HDD & DVD RECORDER to your TV.

■ **What is the HDCP?**
HDCP (High-bandwidth Digital Content Protection) is a system for protecting DVD content outputted via HDMI from being copied. It provides a secure digital link between a video source (PC, DVD. etc) and a display device (TV, projector. etc). Content is encrypted at the source device to prevent unauthorized copies from being made.

CONNECTING TO AV 1 IN, AV 2 IN, DV INPUT JACK

This allows you to connect your HDD & DVD RECORDER to other external devices and view or record their outputs.
- **Case 1 :** Connecting a VCR, Set-Top Box(STB) or DVD player to the AV 1 IN jacks
- **Case 2 :** Connecting a Camcorder to the AV 2 IN jacks
- **Case 3** : Connecting a Camcorder to the DV IN jack

Case 1 : Connecting a VCR, Set- Top Box(STB) or DVD player to the AV 1 IN jacks

Connecting a VCR or external device to AV1 IN jacks of the HDD & DVD RECORDER. You can record from connected equipment (VCR, STB or DVD).

⬤ CONNECTING & SETTING UP
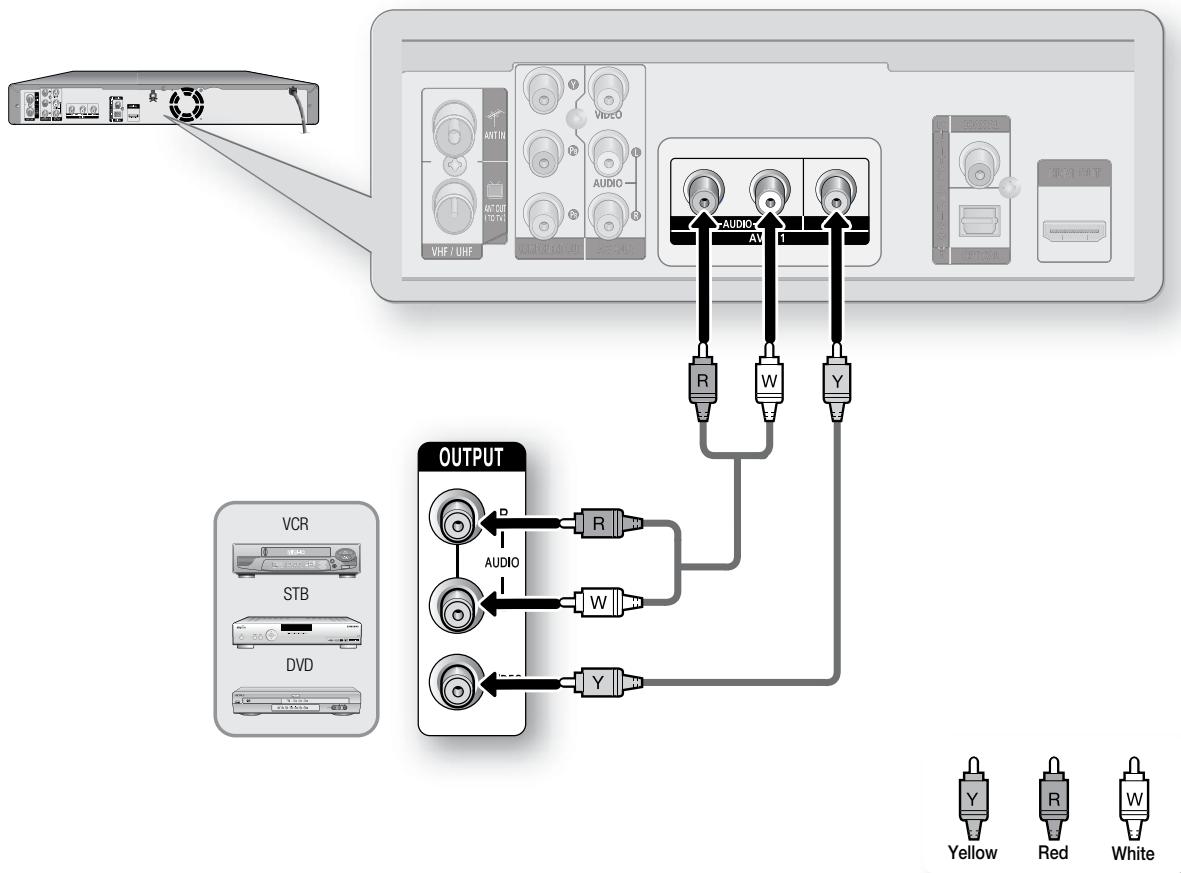
📖 ■ You can also use the AV 2 IN jacks on the front panel of the HDD & DVD RECORDER.

■ Copy protected content cannot be recorded.

connecting & setting up

Case 2 : Connecting a Camcorder to the AV 2 IN jacks

You can also use the AV 2 IN jacks on the front panel of the HDD & DVD RECORDER.You can record from connected equipment, such as a camcorder. When an input source is inserted into AV 2 while viewing TV, the input will be switched to AV 2 automatically. If the input is not selected automatically, use **INPUT SEL.** button to select proper input.

Yellow   Red   White

Camcorder

VCR

STB

DVD
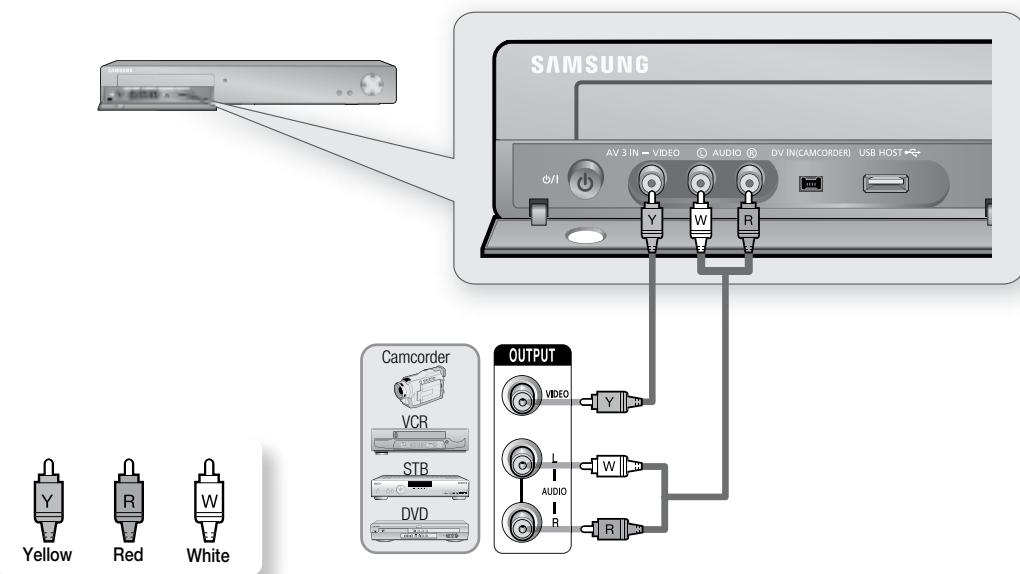
Case 3 : Connecting a Camcorder to the DV IN jack

If your digital camcorder has a DV output jack, connect it to the DV input jack of your HDD & DVD RECORDER.

Camcorder

DV OUT
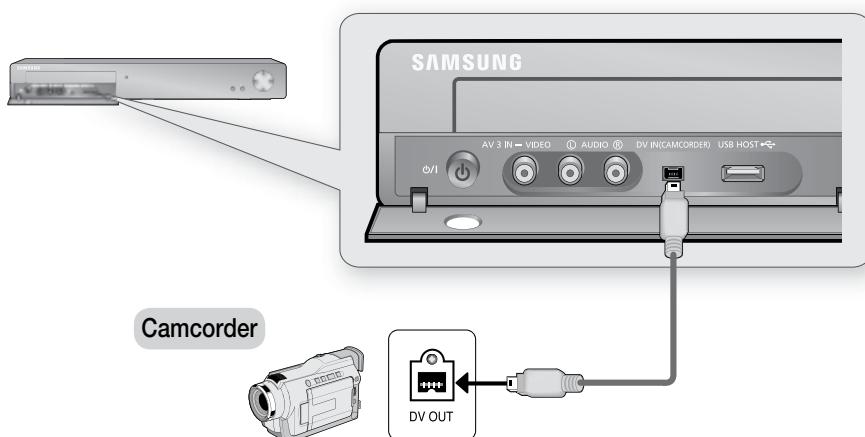
■ If the input is not selected automatically, use **INPUT SEL.** button to select proper input.

CONNECTING TO USB DEVICES

This allows you to connect your HDD & DVD RECORDER to USB devices.

Connecting a USB memory, MP3 player, Digital Camera to the USB HOST.
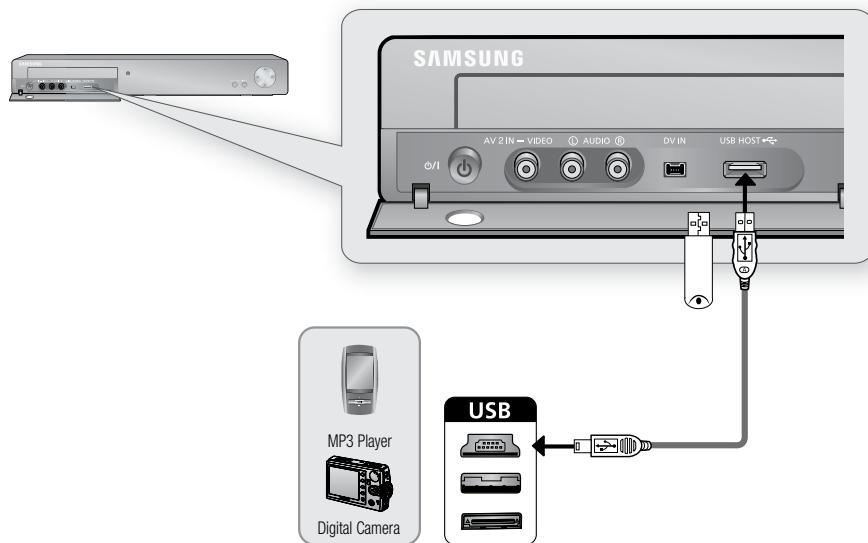
✎ ■ Disconnecting the USB cable during the data transfer will stop the communication and may damage data stored in the memory.

■ When data communication is disrupted due to static electricity, magnetic field or other reason, restart the programme or try to disconnect / connect the USB Cable again.

system setup

ON-SCREEN MENU NAVIGATION

The on-screen menus allow you to enable or disable various functions on your HDD & DVD RECORDER.
Press the **MENU** button to open the on-screen menu and then use the following buttons to navigate through the on screen menus.

1. **▲▼**, **◄►** buttons
   Press these buttons on the remote control to move the selection bar ▲▼, ◄► to cycle through the menu options.

2. **OK** button
   Press this button on the remote control to confirm any new settings.

3. **RETURN** button
   Press this button on the remote control to return to the Previous menu screen displayed or to exit the on-screen menu.

4. **EXIT** button
   Press this button to exit the on-screen **MENU**.

PLUG & PLAY SETUP

Your HDD & DVD RECORDER will automatically set itself up when it is plugged in for the first time. TV stations and clock will be stored in memory. The process takes a few minutes. Your HDD & DVD RECORDER will then be ready for use.

1. Connect the RF cable as indicated on page 22.
   (Connecting Your HDD & DVD RECORDER to the TV Using the RF Cable and scart cable.)
   To use HDMI cable, make the Audio/Video connection before plugging in the power cord or after finishing the "Plug & Play Setup"
   Do not connect the HDMI cable while the "Plug & Play Setup" is progressing.
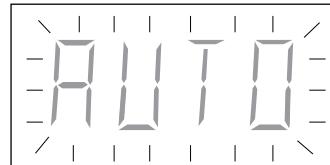
2. Plug the HDD & DVD RECORDER into the mains. "AUTO" in the front panel display flickers.

3. Press a number button to select the language.

4. Press the **OK** button to start the auto setup.
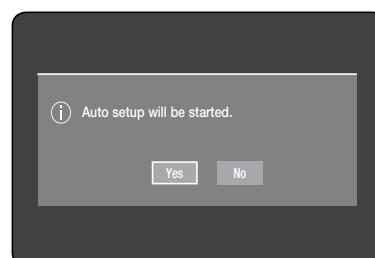
5. Auto channel scan will be started.
  - The number of stations automatically stored by the HDD & DVD RECORDER depends on the number of stations that it has found.

6. Auto Channel Scan is completed. In 3~4 seconds, you will see Clock Setting Menu. If you want to start Clock Setting immediately, Press **OK** button.

✍ ■ Now, your HDD & DVD RECORDER is ready for use. "Plug & Play Setup" is complete. If you want to change it, you can by Presetting the Stations manually "Channel Set – Manual Setup" menu. (See page 35)

  ■ Auto setup function can be performed by pressing **STOP** (⦿) on the unit continuously for 10 seconds or more during power off with no disc inserted.
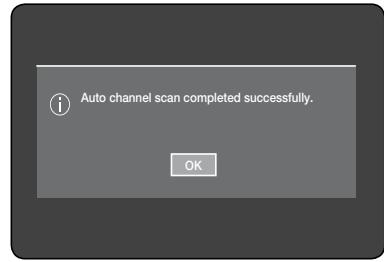
7. Check the date and time.
  - If it is Correct, press **OK** button then the date and time will be saved. If you don't press the **OK** button, the date and time will be saved automatically after 5 seconds.
  - If it is Incorrect, input correct **Month**, **Day**, **Year**, **Hour** or **Minute** using ▲▼, ◄► buttons or number buttons. Press **OK** button then the date and time will be saved. When you need to change clock setting, you can set it up manually.

ⓘ Auto channel scan completed successfully.

OK

Clock Set

mo.	da.	yr.	hr.	min.
JAN	01	2008	12	00

Tuesday
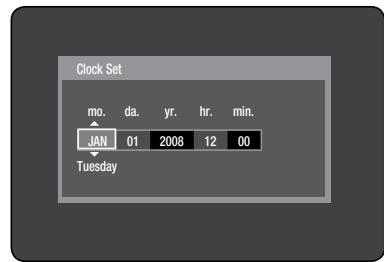
● SYSTEM SETUP

system setup

SETTING THE CLOCK

This menu is used to set the current time.
You need to set the time to use timer recording.

1. With the unit in Stop mode, press the **MENU** button.

2. Press the ▲▼ buttons to select **Setup**, then press the **OK** or ►
   button.

3. Press the ▲▼ buttons to select **System**, then press the **OK** or ►
   button.

4. Press the ▲▼ buttons to select **Clock Set**, then press the **OK** or
   ► button.
   Press the ▲▼◄► buttons to input Month, Day, Year, Hour or
   Minute. Press the number buttons to input clock data directly.
   The day of the week is displayed automatically.

5. Press the **OK** button, then the date and time will be saved. If you
   don't press the **OK** button, it will not be saved.

HDD & DVD RECORDER		Setup
🖼 HDD		
Library	System	►
Timer Record	Channel Set	►
	Language	►
Disc Manager	Audio	►
	Video	►
Setup	Parental Lock 🔓	►
	Recording	►
✛ MOVE ☞ SELECT ↻ RETURN ⬕ EXIT		

HDD & DVD RECORDER		System
🖼 HDD		
Library	Clock Set	►
Timer Record	Auto Power Off : Off	►
	Power save : Off	►
Disc Manager	Anynet+ (HDMI CEC) : On	►
Setup	DivX(R) Registration	►
✛ MOVE ☞ SELECT ↻ RETURN ⬕ EXIT		

HDD & DVD RECORDER	Clock Set
🖼 HDD	
Library	
Timer Record	mo. da. yr. hr. min.
Disc Manager	▲
Setup	JAN 01 2009 12 00
	▼
	Tuesday
◄► MOVE ☞ SELECT ↻ RETURN ⬕ EXIT	

CHANNEL SET

Auto Scanning

This feature allows you to manually set the HDD & DVD RECORDER tuner band to Antenna or Cable,
whichever you connected to the Antenna In jack during initial setup.

1. With the unit in Stop mode, press the **MENU** button.

2. Press the ▲▼ buttons to select **Setup**, then press the **OK** or ►
   button.

3. Press the ▲▼ buttons to select **Channel Set**, then press the **OK**
   or ► button.

HDD & DVD RECORDER		Channel Set
🖼 HDD		
Library	Auto Scanning	►
Timer Record	Manual Setup	►
Disc Manager		
Setup		
✛ MOVE ☞ SELECT ↻ RETURN ⬕ EXIT		
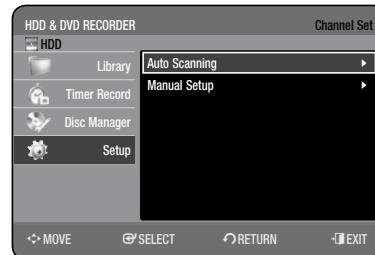
4. Press the ▲▼ buttons to select **Auto Scanning**, then press the **OK** or ► button.
   The message "Your data will be lost. Press [OK] to continue, [RETURN] to exit." is displayed.

5. Press the **OK** button. Channel scan will be started.
   - The first frequency band is scanned and the first station found is displayed and stored. And the HDD & DVD RECORDER searches for the second station and so on.
   - The number of stations automatically stored by the HDD & DVD RECORDER depends on the number of stations that it has found.

✎ ▪ Press the **OK** button to stop the auto scanning

Manual Setup

You can add preset channel that Auto Channel Search missed. And you can delete a channel you wish to remove. You can programme the order of channels.

To setup, follow steps 1 to 3 in "Auto Scanning" on page 34.

4. Press the ▲▼ buttons to select **Manual Setup**, then press the **OK** or ► button.

5. Press the ▲▼ buttons to select a **PR** (programme) you wish to edit, delete, or swap, then press the **COLOUR** button.
   Select **Edit**, **Delete** or **Swap**.

- **In case of Edit (RED(A) button)** : You can add or edit PR (programme) information. After change PR informations (**CH.**, **Name**, **MFT**), select **Save**, then press the **OK** button.

   - **CH** : Tune the channel using ◄► buttons.

   - **Name** : Display station name automatically detected in broadcasting signal. If not detected, you can edit name by using ▲▼◄► buttons.

   - **MFT (Manual Frequency Tunning)** : You can tune up the channel frequency better using ◄► buttons.

- **In case of Delete (GREEN(B) button)** : the channel information of selected PR(programme) will be removed.

- **In case of Swap (YELLOW(C) button)** : You can swap the channel information of two PR(programme). For example, if you wish to swap PR2 and PR5, select swap at PR2, then press the **OK** button at PR5.

Manual Setup

PR	CH	Name
01	002	- - - -
02	004	- - - -
03	- - -	- - - -
04	- - -	- - - -
05	- - -	- - - -
06	- - -	- - - -
07	- - -	- - - -

Edit   Delete   Swap

Manual Setup

PR	01
CH	◄ 002 ►
Name	- - - -
MFT	- - - ▯ - - -

Save

MOVE   SELECT
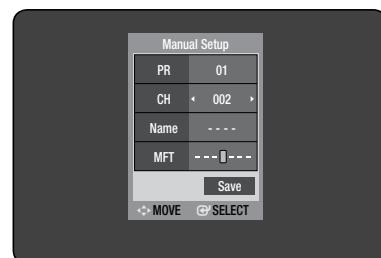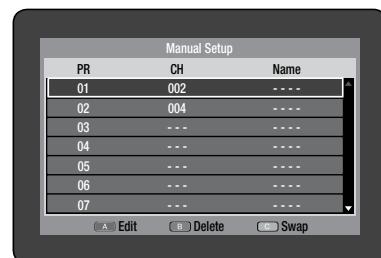
system setup

SETTING UP THE LANGUAGE OPTIONS

If you set the language options, in advance, they will come up automatically every time you watch a movie.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **OK** or ► button.
3. Press the ▲▼ buttons to select **Language**, then press the **OK** or ► button.
   Language setup menu will be displayed.
4. Press the ▲▼ buttons to select the desired language option, press the **OK** or ► button.
   - **Audio** : For the disc audio language.
   - **Subtitle** : For the disc subtitles.
   - **Disc Menu** : For the disc menu contained on the disc
   - **Menu** : For the on-screen menu of your HDD & DVD RECORDER.
5. Press the ▲▼ buttons to select the desired language, then press the **OK** or ► button.

> ■ If the selected language is not recorded on the disc, the original pre-recorded language is selected.
>
> ■ The selected language will only appear if it is supported on the disc.

SETTING UP THE SYSTEM OPTIONS

This function allows you to setup the system setting.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **OK** or ► button.
3. Press the ▲▼ buttons to select **System**, then press the **OK** or ► button.
4. Press the ▲▼ buttons to select the desired system option, then press the **OK** or ► button.
5. Press the ▲▼ buttons to select the desired item, then press the **OK** or ► button.

Auto Power Off Setting

This feature automatically turns off your HDD & DVD RECORDER, if you do not press any button for the selected time.

1. Press the ▲▼ buttons to select **Auto Power Off**, then press the **OK** or ► button.
2. Press the ▲▼ buttons to select the desired item, then press the **OK** or ► button.
   - **Off** : Auto power off is disabled.
   - **2 Hours** : HDD & DVD RECORDER will automatically turn off for 2 hours after the last button is pressed.
   - **6 Hours** : HDD & DVD RECORDER will automatically turn off for 6 hours after the last button is pressed.
   - If the turn off time set with the Auto Power off function is reached during playback or recording, the device will operate until the playback or recording is finished.

Power Save Setting

- On: If it is set to On and you turn off the HDD & DVD recorder, the recorder enters the Power Save and the front panel display goes off.

- Off : Does not set to Power Save. Normally select OFF mode.

✎ ▪ In standby mode with "Power save mode" on, Some function is not available.
Signal from ANT OUT of Recorder to ANT IN of TV will be noisy Refer to page 22.
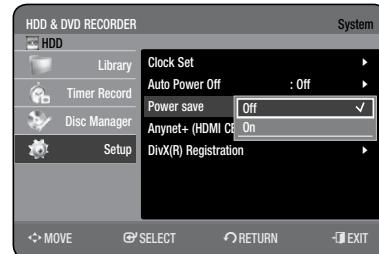
Anynet+ (HDMI CEC)

Anynet+ is a function that can be used to operate the recorder using a Samsung TV remote control, by connecting the HDD & DVD RECORDER to a SAMSUNG TV using an HDMI Cable. (See pages 27~28)
(This is only available with SAMSUNG TVs that support Anynet+.)

1. Press the ▲ ▼ buttons to select **Anynet+ (HDMI CEC)**, then press the **OK** or ► button. Anynet+ (HDMI CEC) items will be displayed.

2. Press the ▲ ▼ buttons to select **On**, then press the **OK** or ► button.

HDD & DVD RECORDER   System
HDD
Library   Clock Set   ▶
Timer Record   Auto Power Off   : Off   ▶
               Power save   : Off   ▶
Disc Manager   Anynet+ (HDMI CE   Off
Setup   DivX(R) Registratio   On   ✓

◆ MOVE   ☞ SELECT   ↻ RETURN   ⬛ EXIT

For using Anynet+ (HDMI CEC)

1. Connect the HDD & DVD RECORDER to a Samsung TV with an HDMI cable. (See pages 27~28)

2. Set the Anynet+ (HDMI CEC) to "**On**" on your HDD & DVD RECORDER. (see above)

3. Set the Anynet+ function on your TV.
(See the TV instruction manual for more information.)

- You can operate the HDD & DVD RECORDER by using TV remote control.
(TV buttons that can be used to control the HDD & DVD RECORDER : ⏪, ⏹, ▶, ⏩, ◁, ▽ and (◁, ▷) buttons, ⓪~⑨ button)

- When you press **Anynet+** button on the TV remote control, the OSD to the left will appear.
  - **Select Device** : Use this option to select device.
  - **Record** : Use this option to start recording or stop recording.
  - **Menu on Device** : Same as **MENU** button (🔲) on the HDD & DVD RECORDER remote control.
  - **Device Operation** : Same as **INFO** button (◯) on the HDD & DVD RECORDER remote control.

<TV Menu>
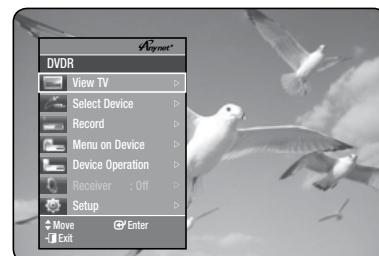
✎ ▪ By pressing the **STANDBY/ON** button of the recorder while watching TV, the TV screen will change to the play screen.

▪ If you power on a DVD recorder when the TV power is off, the TV will power On.

▪ If you turn the TV off, the HDD & DVD Recorder will power off automatically. (When the HDD & DVD Recorder is recording, it can't be powered off.)

▪ If you change the HDMI to other sources (Composite, Component, RF... etc) in TV while playing the DVD disc, the HDD & DVD Recorder will stop playing. But the HDD & DVD Recorder may keep the DVD disc Recording.

● SYSTEM SETUP

system setup

DivX(R) Registration

Please use the Registration code to register this HDD & DVD RECORDER with the DivX(R) Video On Demand format. For more information, visit **www.divx.com/vod**
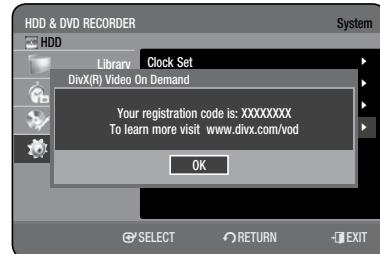
SETTING UP THE AUDIO OPTIONS

You can connect the HDD & DVD RECORDER to an external amp or Home theatre.

Allows you to setup the Audio device and sound status depending on the audio system in use.

You can also set NICAM mode.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **OK** or ▶ button.
3. Press the ▲▼ buttons to select **Audio**, then press the **OK** or ▶ button.
4. Press the ▲▼ buttons to select the desired audio option, then press the **OK** or ▶ button.
5. Press the ▲▼ buttons to select the desired item, then press the **OK** or ▶ button.

Digital Output

- **PCM** : Select this when your equipment does not decode Dolby Digital (or MPEG-2) compatible.
- **Bitstream** : Outputs Dolby Digital (or MPEG-2) audio as bitstream. Select this when your AV receiver or AV amplifier has a Dolby Digital (or MPEG-2) Decoder.

✐ ■ Digital output setting is equally applied to both Dolby Digital and MPEG-2 audio. LPCM sound track is always outputted as PCM. It has no relation with Digital Output setting.

■ Be sure to select the correct Digital Output or you will hear no sound or a loud noise.
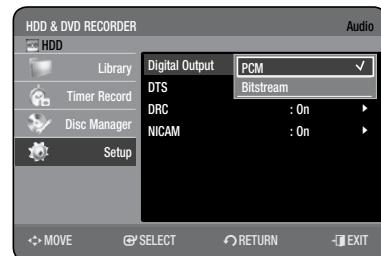
DTS

- **Off** : Doesn't output DTS signal. Select this when your AV receiver (or AV amplifier) does not have a DTS decoder.
- **On** : Outputs DTS Bitstream via digital output when you play DTS track. Select this only when your AV receiver (or AV amplifier) has a DTS decoder.

✐ ■ When DTS soundtrack is played, sound does not output from AV Audio Output.

● SYSTEM SETUP

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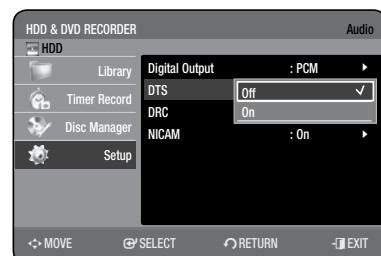
system setup

DRC

This is only active when a Dolby Digital signal is detected.

- **On** : When Movie soundtracks are played at low volume or from smaller speakers, the system can apply appropriate compression to make low-level content more intelligible and prevent dramatic passages from getting too loud.
- **Off** : You can enjoy the movie with the standard Dynamic Range.

HDD & DVD RECORDER		Audio
HDD		
Library	Digital Output	: PCM ▶
Timer Record	DTS	: Off ▶
Disc Manager	DRC	Off
Setup	NICAM	On ✓

◆ MOVE   ☞ SELECT   ↻ RETURN   ⬅ EXIT
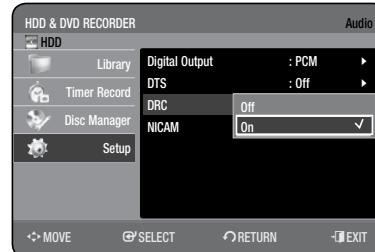
NICAM

NICAM programmes are divided into 3 types. NICAM Stereo, NICAM Mono and Bilingual (transmission in another language). NICAM programmes are always accompanied by a standard mono sound broadcast and you can select the desired sound by setting NICAM on or off.

- **On** : NICAM mode
- **Off** : Only set at this position to record the standard mono sound during a NICAM broadcast if the stereo sound is distorted due to inferior reception conditions.

HDD & DVD RECORDER		Audio
HDD		
Library	Digital Output	: PCM ▶
Timer Record	DTS	: Off ▶
Disc Manager	DRC	: On ▶
Setup	NICAM	Off
		On ✓

◆ MOVE   ☞ SELECT   ↻ RETURN   ⬅ EXIT
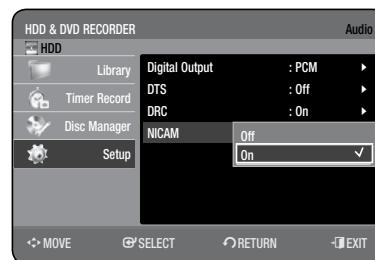
SETTING UP THE VIDEO OPTIONS

This function allows you to setup the video setting.

This function depends on disc type. It may not work for some disc types.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **OK** or ▶ button.
3. Press the ▲▼ buttons to select **Video**, then press the **OK** or ▶ button. Video setup menu will be displayed.
4. Press the ▲▼ buttons to select the desired video option, then press the **OK** or ▶ button.
5. Press the ▲▼ buttons to select the desired item, then press the **OK** or ▶ button.

| HDD & DVD RECORDER		Setup
HDD		
Library	System	▶
Timer Record	Channel Set	▶
	Language	▶
Disc Manager	Audio	▶
Setup	Video	▶
	Parental Lock	▶
	Recording	▶

MOVE   SELECT   RETURN   EXIT

TV Aspect

Depending on the type of television you have, you may want to adjust the screen setting. (aspect ratio)

- **4:3 Letter Box** : Select when you want to see the total 16:9 ratio screen DVD supplies, even though you have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen.
- **4:3 Pan-Scan** : Select this for conventional size TV when you want to see the central portion of the 16:9 screen. (Extreme left and right side of movie picture will be cut off.)
- **16:9 Wide** : You can view the full 16:9 picture on your wide screen TV.

HDD & DVD RECORDER		Video
HDD		
Library	TV Aspect	4:3 Letter Box
Timer Record	3D Noise Reduction	4:3 Pan-Scan
	Component Output	16:9 Wide ✓
Disc Manager	BD Wise	: Off
Setup	HDMI Resolution	: 576P

MOVE   SELECT   RETURN   EXIT

3D Noise Reduction (motion adaptive noise reduction)

- **Off** : Normal
- **On** : Provides a clear picture through noise reduction (for recording).

HDD & DVD RECORDER		Video
HDD		
Library	TV Aspect	: 16:9 Wide
Timer Record	3D Noise Reduction	Off ✓
	Component Output	On
Disc Manager	BD Wise	: Off
Setup	HDMI Resolution	: 576P

MOVE   SELECT   RETURN   EXIT
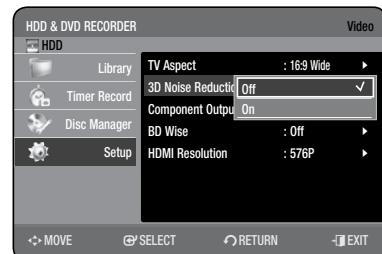
system setup

Component Output (Progressive Scan)

This function is available when video output is component. This setting enables you to select progressive mode. To view 'Progressive scan mode', first connect the component cable. (See page 24) Be sure the Component cables are connected properly.

- **Progressive**

  The message "Do you want to maintain progressive mode? Reverting in 10 seconds." will be displayed. Select "Yes" to revert progressive mode.

- **Interlace**

  The message "Do you want to maintain interlace mode? Reverting in 10 seconds." will be displayed. Select "Yes" to revert interlace mode.

✎ ▪ When the HDMI cable is connected, this screen is not displayed.
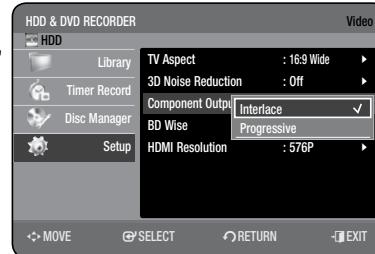
BD Wise (Only Samsung products)

BD Wise is Samsung's latest inter-connectivity feature.

When you connect Samsung products with BD-Wise to each other via HDMI, the optimum resolution will be set automatically.

- **On** : The original resolution of the DVD disc will be output to the TV directly.
- **Off** : The output resolution will be fixed according to the Resolution previously set, regardless of the resolution of the disc.
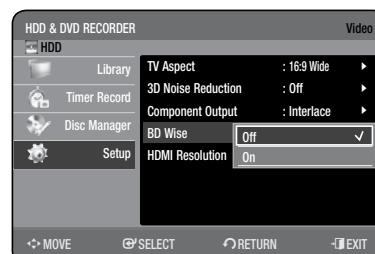
✎ ▪ If you want to change the resolution in BD Wise, you must set BD Wise to Off in advance.

▪ If you set off the BD Wise, the resolution of the connected TV will be adjusted to its maximum resolution automatically.

▪ If the HDD & DVD Recorder is connected to a device that does not support BD Wise, you can not use BD Wise function.

▪ For a proper operation of BD Wise, set each **BD Wise** menu of the player and the TV to On respectively.

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HDMI Resolution

This setting is used when the unit is connected by HDMI with Display devices (TV, projector, etc).

- **BD Wise** : Automatically selects the optimal resolution according to the TV that supports BD Wise. (The BD Wise menu item appears only if BD Wise is set to On.)
- **576P** : 720 x 576
- **720P** : 1280 x 720
- **1080i** : 1920 x 1080
- **1080P** : 1920 x 1080
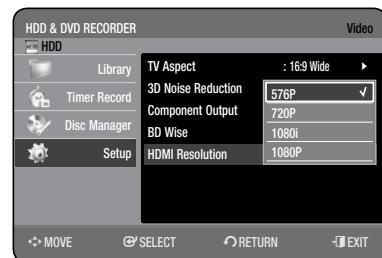
Output selection

- Connect the HDD & DVD RECORDER to your TV via HDMI.
  Set your TV's input to HDMI.

HDD & DVD RECORDER		Video
HDD		
Library	TV Aspect	: 16:9 Wide ▶
Timer Record	3D Noise Reduction	576P ✓
Disc Manager	Component Output	720P
	BD Wise	1080i
Setup	HDMI Resolution	1080P

◆ MOVE   ☞ SELECT   ↻ RETURN   ⊣◻ EXIT

● SYSTEM SETUP

✐ ▪ The BD Wise menu item appears only if BD Wise is set to On.
BD wise function is enabled only if BD Wise-compliant Samsung Products are connected with each other using the HDMI cable.

▪ Progressive scan automatically activates when HDMI is connected. (Please make sure **HDMI** is indicated on the front panel of the HDD & DVD RECORDER.)

▪ Consult your TV User's Manual to find out if your TV supports Progressive Scan.
If Progressive Scan is supported, follow the TV User's Manual regarding Progressive Scan settings in the TV's menu system.

▪ This HDMI resolution menus support only TV resolutions which are possible come to become the display.

▪ The resolutions available for HDMI output depend on the connected TV or projector. For details, see the user's manual of your TV or projector.

▪ When the resolution is changed it may take a few seconds for a normal image to appear.

system setup

SETTING UP THE PARENTAL LOCK

The Parental Lock function works in conjunction with DVDs that have been assigned a rating which helps you control the types of DVDs that your family watches. There are up to 8 rating levels on a disc.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **OK** or ► button.
3. Press the ▲▼ buttons to select **Parental Lock**, then press the **OK** or ► button.
   When you operate your HDD & DVD RECORDER for the first time, the "Create the Password" message will be displayed.
4. Enter the 4-digit password using the number buttons on the remote control.
   The "Confirm the password" message will be displayed. Enter your password again.

HDD & DVD RECORDER	Setup
☐ HDD	
▢ Library	System ►
⏱ Timer Record	Channel Set ►
📀 Disc Manager	Language ►
	Audio ►
⚙ Setup	Video ►
	Parental Lock 🔓 ►
	Recording ►
↔ MOVE ☞ SELECT ↻ RETURN ⬅ EXIT	

If you forgot your password

1. Remove the disc.
2. Press and hold the **PLAY/PAUSE** (►II) button on the front panel for 10 seconds or more.

Setting the Rating Level

1. Press the ▲▼ buttons to select **Rating Level**, then press the **OK** or ► button.
2. Press the ▲▼ buttons to select the rating level you want, then press the **OK** or ► button.
   For example, if you select up to Level 6, discs that contain Level 7, 8 will not play. A larger number indicates that the programme is intended for adult use only.

HDD & DVD RECORDER	Parental Lock
☐ HDD	
▢ Library	Rating Level	Off ✓
⏱ Timer Record	Change Password	Level8 - Adults
📀 Disc Manager		Level7
		Level6
⚙ Setup		Level5
		Level4
		Level3
		Level2
↔ MOVE ☞ SELECT ↻ RETURN ⬅ EXIT		
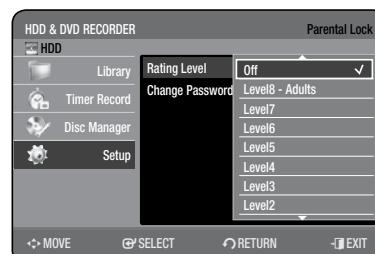
Changing the Password

1. Press the ▲▼ buttons to select **Change Password**, then press the **OK** or ► button.
2. Enter the 4-digit password using the number buttons on the remote control. The "Confirm the password" message will be displayed.
3. Enter your password again using the number buttons on the remote control.

HDD & DVD RECORDER	Parental Lock
☐ HDD	
▢ Library	Rating Level : Level7 ►
⏱ Timer Record	Change Password ►
📀 Disc Manager	
⚙ Setup	
↔ MOVE ☞ SELECT ↻ RETURN ⬅ EXIT	

✎ ▪ After Rating Level has been set, you can change the password.

SETTING UP THE RECORDING OPTIONS

Automatic Chapter Creator

A DVD-Video consists of 'Titles' and 'Chapters'. When you record one programme, it makes one Title.
If you use this function, the Title will be divided into Chapters.

1. Press the ▲▼ buttons to select **Setup**, then press the **OK** or ▶ button.
2. Press the ▲▼ buttons to select **Recording**, then press the **OK** or ▶ button.
3. Press the ▲▼ buttons to select **Chapter Creator**, then press the **OK** or ▶ button.
4. Press the ▲▼ buttons to select **Off** or **On**, then press the **OK** or ▶ button.
   - **Off** : Select if you do not want use Automatic Chapter Creator.
   - **On** : Select this option to use the Automatic Chapter Creator feature.

   Press the **EXIT (⊙)** button exit the menu.
5. Press the **REC** button to start recording.
   (See page 68 about how to set recording speed)
   The message "Do you want to create the chapter menu after this recording?" is displayed.
6. Press the ◀▶ buttons to select **OK**, then press the **OK** button.
   - A new chapter is created according to the selected recording mode. A chapter will be about 5 minutes long in XP and SP, and about 15 minutes long in LP and EP mode.
7. Press the **STOP (⊙)** button to stop recording.
8. To display the created titles, finalise the disc (See page 96) and then press the **TITLE MENU** button.
   The title menu will be displayed.
   - Finalising is generally unnecessary when using a DVD+RW disc.
9. To display the created chapters, select the desired Title and then press the **DISC MENU** button.
   The chapter menu for the selected Title will be displayed.

   ! ▪ The Automatic Chapter Creator function does not work during Timer Recording or when you turn the power off.
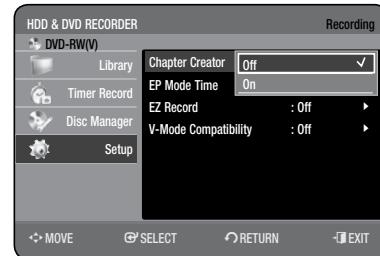
EP Mode Time Setting

You can select one of four recording modes by pressing the **REC MODE** button repeatedly.

In EP(Extended Play) mode, you can set recording time to 6 or 8 hours with this setting.

- 6 Hours
- 8 Hours

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system setup

EZ Record

DVD-RW DVD-R DVD+RW DVD+R
(V-mode)

This function allows you to Initialise and Finalise a disc automatically.

1. Press the ▲▼ buttons to select **EZ Record**, then press the **OK** or ► button.

2. Press the ▲▼ buttons to select **On**, then press the **OK** or ► button.
   Press the **EXIT ( )** button to exit the menu.

3. Insert a disc.
   If the disc is new, it will initialise automatically.

4. Press the **REC** button.

5. EZ Record function will automatically Finalise the disc under the following conditions.
   • When you press the **OPEN/CLOSE** button on your HDD & DVD RECORDER after recording on at least 70% of the disc. The tray will open after the disc has been finalised.
   • The above feature is available only when a DVD-RW(V), DVD+R or DVD-R disc is inserted.

HDD & DVD RECORDER	Recording
HDD	
Library	Chapter Creator : Off ►
Timer Record	EP Mode Time : 6 Hours ►
Disc Manager	EZ Record Off ✓
Setup	V-Mode Compatib On

MOVE   SELECT   RETURN   EXIT
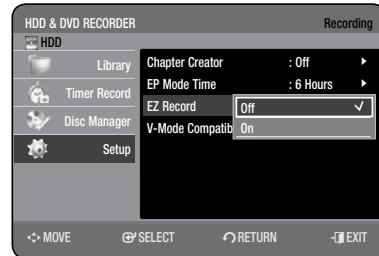
- ▪ If you insert a new DVD-RW disc, it will be formatted in V mode after auto initialising.
- ▪ If you insert a new DVD+RW disc, it will be formatted automatically.
- ▪ If you select off, you must initialise (See page 67) and finalise the disc manually in the Disc Manager menu. (See page 96)
- ▪ The length of Recording is different according to recording mode. (See pages 47~48)

V-Mode Compatibility

This feature is about the setup for selecting audios when recording the NICAM STEREO (Multi-audio) broadcasting on HDD. It does not directly affect DVD recording of a programme.

• **Off** : Both "Dual L" and "Dual R" of the multi-audio broadcasting are recorded on HDD. Titles recorded on HDD under such setup status cannot be copied to DVD-R or DVD-RW (V mode).

• **On** : Either "Dual L" or "Dual R" of the multi-audio broadcasting is recorded on HDD. Titles recorded on HDD under such setup status can be copied to DVD-R or DVD-RW (V mode). "Dual L" and "Dual R" options can be selected from "Audio Selection."

HDD & DVD RECORDER	Recording
HDD	
Library	Chapter Creator : Off ►
Timer Record	EP Mode Time : 6 Hours ►
Disc Manager	EZ Record : Off ►
Setup	V-Mode Compatib Off ✓
	On

MOVE   SELECT   RETURN   EXIT

HDD & DVD RECORDER	Recording
HDD	
Library	Chapter Creator : Off ►
Timer Record	EP Mode Time : 6 Hours ►
Disc Manager	EZ Record : Off ►
Setup	V-Mode Compatibility : On ►
	Audio Selection Dual L ✓
	Dual R

MOVE   SELECT   RETURN   EXIT

playback

This section introduces basic functions of playback and playback by disc type.
Read the following information before playing a disc.

REGION CODE (DVD-VIDEO ONLY)

Both the HDD & DVD RECORDER and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play. The Region Number for this HDD & DVD RECORDER is described on the rear panel of the HDD & DVD RECORDER.

2 ALL	: Israel
3 ALL	: Indonesia, Singapore, Malaysia, Vietnam
5 ALL	: India

LOGOS OF DISCS THAT CAN BE PLAYED

DOLBY DIGITAL STEREO CREATOR	**dts** Digital Out	**DIGITAL SOUND**
Dolby Digital	DTS	Digital Audio
STEREO	**PAL**	**DivX**	**MP3** DIGITAL DISC PLAYBACK
Stereo	PAL broadcast system in U.K, France, Germany, etc.	DivX	MP3
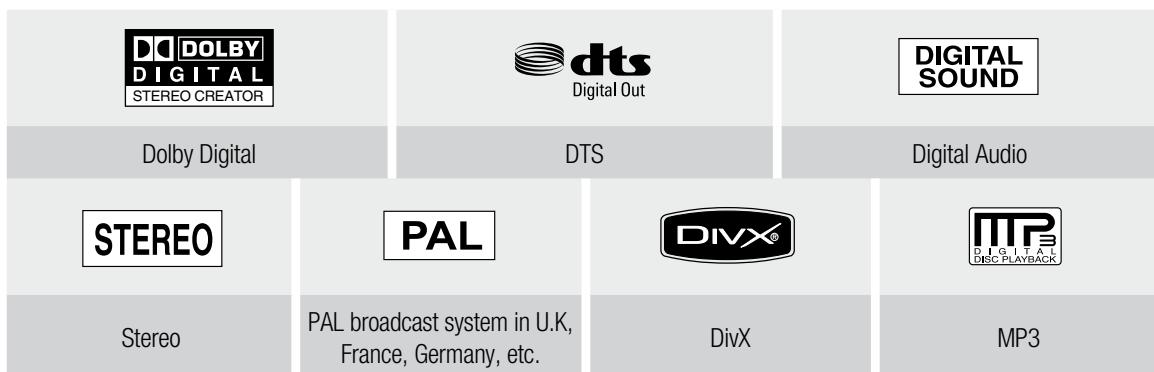
DISC TYPES THAT CAN BE PLAYED

Disc Types	Disc Logo content	Recorded content	Disc Shape	Max. Playing Time
DVD-VIDEO	**DVD** VIDEO	VIDEO AUDIO	Single sided(12cm)	240 min.
			Double sided(12cm)	480 min.
			Single sided(8cm)	80 min.
			Double sided(8cm)	160 min.
AUDIO-CD	**disc** COMPACT DIGITAL AUDIO	AUDIO	Single sided(12cm)	74 min.
			Single sided(8cm)	20 min.
JPEG		JPEG Image	Single sided(12cm)	–
			Single sided(8cm)	–
MP3		MP3 Audio	Single sided(12cm)	–
			Single sided(8cm)	–
DivX	**DivX**	DivX Movie	Single sided(12cm)	–
			Single sided(8cm)	–

playback

Disc Types	Disc Logo content	Recorded content	Disc Shape	Max. Playing Time
DVD-RAM	*DVD* RAM	AUDIO VIDEO	Single Layer(12cm) (4.7GB)	1 hr. (XP: Excellent Quality)
				2 hrs. (SP: Standard Quality)
				4 hrs. (LP: Long Playback)
				6 or 8 hrs. (EP: Extended)
			Dual Layer(12cm) (9.4GB)	2 hr. (XP: Excellent Quality)
				4 hrs. (SP: Standard Quality)
				8 hrs. (LP: Long Playback)
				12 or 16 hrs. (EP: Extended)
DVD-RW	*DVD* R W	AUDIO VIDEO	12cm (4.7GB)	1 hr. (XP: Excellent Quality)
				2 hrs. (SP: Standard Quality)
				4 hrs. (LP: Long Playback)
				6 or 8 hrs. (EP: Extended)
DVD-R	*DVD* R	AUDIO VIDEO	Single Layer(12cm) (4.7GB)	1 hr. (XP: Excellent Quality)
				2 hrs. (SP: Standard Quality)
				4 hrs. (LP: Long Playback)
				6 or 8 hrs. (EP: Extended)
			Dual Layer(12cm) (8.5GB)	1 hr. 50 min (XP: Excellent Quality)
				3 hrs. 40 min (SP: Standard Quality)
				7 hrs. 20 min (LP: Long Playback)
				11 or 14 hrs. 40 min (EP: Extended)
DVD+RW	RW DVD+ReWritable	AUDIO VIDEO	12cm (4.7GB)	1 hr. (XP: Excellent Quality)
				2 hrs. (SP: Standard Quality)
				4 hrs. (LP: Long Playback)
				6 or 8 hrs. (EP: Extended)
DVD+R	RW DVD+R / RW DVD+R DL	AUDIO VIDEO	Single Layer(12cm) (4.7GB)	1 hr. (XP: Excellent Quality)
				2 hrs. (SP: Standard Quality)
				4 hrs. (LP: Long Playback)
				6 or 8 hrs. (EP: Extended)
			Dual Layer(12cm) (8.5GB)	1 hr. 50 min (XP: Excellent Quality)
				3 hrs. 40 min (SP: Standard Quality)
				7 hrs. 20 min (LP: Long Playback)
				11 or 14 hrs. 40 min (EP: Extended)
CD-R/-RW DVD-RAM/-RW/-R		JPEG MP3 DivX	–	–

Discs that cannot be played

- DVD-Video with a region number other than :
  - "2" or "ALL" : Israel
  - "3" or "ALL" : Indonesia, Singapore, Malaysia, Vietnam
  - "5" or "ALL" : India
- 3.9 GB DVD-R Disc for Authoring.
- DVD-RAM/-RW(VR mode) not recorded following the Video Recording Standard
- A DVD±R/DVD-RW(V) disc which has been recorded and not finalised in a different manufacturer's recorder.
- DVD-ROM/PD/MV-Disc, etc
- CVD/CD-ROM/CDV/CD-G/CD-I

> ▪ This HDD & DVD RECORDER can only operate with discs that are compatible with DVD-RAM Standard Version 2.0.
>
> ▪ Playback and/or recording may not work for some types of discs, or when specific operations, such as angle change and aspect ratio adjustment, are being performed. Information about the discs is written in detail on the box. Please refer to this if necessary.
>
> ▪ Do not allow the disc to become dirty or scratched, finger prints, dirt, dust, scratches or deposits of cigarette smoke on the recording surface may make it impossible to use the disc for recording.
>
> ▪ DVD-RAM/±RW/±R discs may not be able to play on some DVD players, depending on the player, disc and the condition of the recording.
>
> ▪ Discs with NTSC programmes recorded on them cannot be played and recorded using this product.

PLAYING A DISC

1. Press the **OPEN/CLOSE** button.
2. Place a disc gently into the tray with the disc's label facing up.
3. Press the **OPEN/CLOSE** button to close the disc tray.
   - Your HDD & DVD RECORDER closes the disc tray and plays the disc automatically.
   - The HDD & DVD RECORDER does not play discs automatically after being powered on initially.
   - When the HDD & DVD RECORDER is powered on and a disc is in the tray, the unit will be activated and wait in stop status.
   - Press the **PLAY** (⊙) button to start playback.
   - If you want the unit to play automatically when it is powered on with a disc in the unit, power on with the **PLAY** (⊙) button.
4. Press the **STOP** (⊙) button to stop playback.

> ▪ When you stop playing back a disc, the HDD & DVD RECORDER remembers where you stopped, so when you press **PLAY** (⊙) button again, it will pick up where you left off. (Unless the disc is removed or the HDD & DVD RECORDER is unplugged, or if you press the **STOP** (⊙) button twice.)

> ! ▪ Do not move your HDD & DVD RECORDER while playing, as this may cause damage to the disc.
>
> ▪ Make sure to press the **OPEN/CLOSE** button to open or close the disc tray.
>
> ▪ Do not push the disc tray while it is being opened or closed, as this may cause a product malfunction.
>
> ▪ Do not place foreign materials on or in the disc tray.
>
> ▪ Some functions may perform differently or be disabled depending on the disc type.
> If this occurs, refer to the instructions written on the disc case.
>
> ▪ Be especially careful that children's fingers are not caught between the disc tray and the tray chassis when it closes.
>
> ▪ You must only insert one DVD disc at a time. Inserting two or more discs will not allow playback and may cause damage to the HDD & DVD RECORDER.

● **PLAYBACK**

playback

USING THE DISC MENU & TITLE MENU

Some type of discs contain a dedicated menu system that allows you to select special functions for title, chapter, audio track, subtitle, film preview, information on characters, etc.

For DVD-VIDEO Disc

- **Disc Menu** : Press the **DISC MENU** button to enter the disc menu of the disc.
  - Move to the setup menu related to playback operation.
  - You can select audio language and subtitle etc. provided by the disc.
- **Title Menu** : Press the **TITLE MENU** button to move to the title menu of the disc.
  - Press this button if the disc contains more than one title. Some discs may not support the title menu functionality.

For HDD/DVD-RAM/±RW/±R Disc

- **Title List**
  Press the **TITLE LIST** button. Title List is a list of previously recorded programmes. If a title is deleted, that title cannot be played again.

- **Play List (HDD/DVD-RAM/-RW(VR))**
  Press the **PLAY LIST** button. This refers to a list of user-selected titles. When one playlist is played, only the scene selected by the user will play and then stop. Since only the information necessary for playing a desired scene is included in a playlist, even if that playlist is deleted, the original recording will not be deleted. (only VR mode)

USING THE PLAYBACK RELATED BUTTONS

Searching through a Chapter or Track

During play, press the **SEARCH** (◄◄ ►►) buttons on the remote control.

HDD/DVD-VIDEO/	►► X 2 → ►► X 4 → ►► X 8 →
DVD-RAM/±RW/±R	►► X 16 → ►► X 32 → ►► X 128
DivX	►► X 2 → ►► X 4 → ►► X 8
AUDIO CD (CD-DA)	►► X 2 → ►► X 4 → ►► X 8

- You can scan the programme in reverse.
- When you press and hold the **SEARCH** (◄◄ ►►) buttons, playback is done at the default speed of X 4.
  If you release the **SEARCH** (◄◄ ►►) buttons , playback is performed at a normal speed.
- To return to normal speed playback, press the **PLAY** (►) button.

  ■ You can hear sound during forward search(X 2) in HDD/DVD-VIDEO/DVD-RAM/±RW/±R disc.
    (No sound is heard during Scan(Search) mode in DivX disc.)

  ■ The speed marked in this function may be different from the actual playback speed.

Skipping Chapters, Titles or Markers

During play, press the **SKIP** ( ) buttons on the remote control.

- **If you press the SKIP ( ) button,**
  it moves to the beginning of the chapter or Title or marker (HDD/DVD-RAM/-RW(VR mode)).
  Pressing the button once again within 3 seconds returns to the beginning of the previous chapter or Title or marker (HDD/DVD-RAM/-RW(VR mode)).
- **If you press the SKIP ( ) button,**
  it moves to the next chapter or track or marker (HDD/DVD-RAM/-RW(VR mode)).

Slow Motion Play

In pause mode, press the **SEARCH** ( ) buttons on the remote control.

- **If you press the SEARCH ( ) button,**
  ❙▶ 1/2 ➞ ❙▶ 1/4 ➞ ❙▶ 1/8
- **If you press the SEARCH ( ) button,**
  ◀❙ 1/2 ➞ ◀❙ 1/4 ➞ ◀❙ 1/8
- To return to normal speed playback, press the **PLAY** ( ) button.

Press and hold the **SEARCH** ( ) buttons during pause, the disc will play slowly at 1/4 speed.
If the button is released, the pause operation will resume.

> ▣ ▪ The speed marked in this function may be different from the actual playback speed.
>
> ▪ Slow motion operates only in the forward direction on DivX discs.

Step Motion Play

Press the **SKIP**(,) buttons on the remote control in the pause mode.

- Each time the button is pressed, a new frame will appear.
  When the **SKIP**( ) button is pressed, the previous frame will be activated.
  When the **SKIP**( ) button is pressed, the next frame will be activated.
- To return to normal speed playback, press the **PLAY** ( ) button.

> ▣ ▪ Step motion operates only in the forward direction on DivX discs.

● PLAYBACK

playback

USING THE INFO BUTTON

The INFO function allows you to easily search for a desired scene by accessing title, chapter, or time.
You can also change the subtitle and audio settings and set some features including Angle, Repeat, and Zoom.

Moving to a scene directly using the INFO

If you want to move to a certain title, chapter or time, use this function.

1. Press the **INFO** button during playback.

2. Press the ▲▼ buttons to select **Search**, then press the **OK** or ▶ button.

3. Press the ▲▼ buttons to select **Title, Chapter** or **Time**.

4. Press the ◄► buttons or number buttons to select the desired scene, then press the **OK** button.
In case of searching a time, enter the time in the sequence of hours, minutes, and seconds using the number buttons.
Then press the **OK** button.
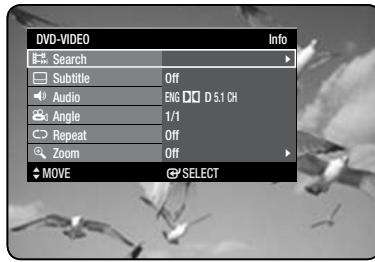
> ✎ ▪ This may not work for some discs.
> When an audio CD(CD-DA) or an MP3/JPEG disc is inserted, depending on the disc type, the information display may not appear.
>
> ▪ The Time Search function does not operate on some discs.
>
> ▪ To make the screen disappear, press the **RETURN** button.

DVD-VIDEO	Info
Search	▶
Subtitle	Off
Audio	ENG D D 5.1 CH
Angle	1/1
Repeat	Off
Zoom	Off ▶
↕ MOVE	SELECT

Search	Info
Title	1/3
Chapter	1/40
Time	00:00:37
◄► CHANGE	SELECT

SELECTING THE SUBTITLE LANGUAGE

Selects one of the subtitle languages recorded on the disc.
You can also operate this function by pressing the **SUBTITLE** button on the remote control.

1. Press the **INFO** button during playback.

2. Press the ▲▼ buttons to select **Subtitle**.

3. Press the ◄► buttons to select the desired subtitle language.

> ✎ ▪ The subtitle display may be different depending on the disc type.
>
> ▪ Some discs allow you to select the language from the disc menu only.

SELECTING THE SOUNDTRACKS & AUDIO CHANNELS

Selects one of the soundtracks recorded on the disc. Also selects the audio channels from recorded TV programmes.

You can also operate this function by pressing the **AUDIO** button on the remote control.

1. Press the **INFO** button during playback.
2. Press the ▲▼ buttons to select **Audio**.
3. Press the ◄► buttons to select the desired soundtracks or audio channel.

> ■ Soundtracks or Audio channel may be different because they are disc-specific.
>
> ■ Some discs allow you to select the audio language from the disc menu only.

CHANGING THE CAMERA ANGLE

When a DVD VIDEO contains multiple angles of a particular scene, you can select the Angle function.

1. Press the **INFO** button during playback.
2. Press the ▲▼ buttons to select **Angle**.
3. Press the ◄► buttons to select the desired angle.

> ■ This function is disc-dependent, and may not work on all DVDs.
>
> ■ This function does not work when a DVD has not been recorded with a multi-camera angle system.
>
> ■ Displays the current angle and the total angle number.

REPEAT PLAY

Playing Repeatedly (Repeat Playback)

You can also operate this function by pressing the **REPEAT** button on the remote control.

1. Press the **INFO** button during playback.
2. Press the ▲▼ buttons to select the **Repeat**.
3. Press the ◄► buttons to select **Off**, **A-B** or **Title** or **Chapter** you want to play repeatedly, then press the **OK** button.

> ■ HDD/DVD-RAM/-RW(VR mode), unfinalised DVD±R and unfinalised DVD-RW (V mode) discs will do not repeat a chapter.
>
> ■ You can also activate Normal Playback by pressing the **EXIT** (⊕) button.

● PLAYBACK

English _**53**

playback

Repeat A-B

HDD DVD-VIDEO DVD-RAM DVD-RW DVD-R DVD+RW DVD+R

1. Press the **INFO** button during playback.

2. Press the ▲▼ buttons to select **Repeat**.

3. Press the ◄► buttons to select **A-B**, then press the **OK** button.

4. Press the **OK** button at the point where you want the repeat play to start (A) and press it again at the point where you want the repeat play to stop (B). Repeat playback of the A-B section starts.

Repeat   A-B ↕

↕ CHANGE   SELECT

- If you set point (B) before five seconds of playback has lapsed, the prohibition mark (⊘) will appear.

- You can also activate Normal Playback by pressing the **EXIT** () button.

- Audio CDs(CD-DA), MP3 discs and DivX discs do not support the Repeat A-B function.

ZOOMING-IN

HDD DVD-VIDEO DVD-RAM DVD-RW DVD-R DVD+RW DVD+R

1. Press the **INFO** button during playback.

2. Press the ▲▼ buttons to select **Zoom**, then press the **OK** or ► button. () will be displayed.

3. Press ▲▼◄► buttons to move to the area you want to enlarge.

4. Press the **OK** button.
The screen will be enlarged to twice the normal size. Pressing the **OK** button again to enlarge the screen size to four times the normal size.

HDD/DVD-VIDEO/DVD-RAM/±RW/±R	normal size → X2 → X4 → X2 → normal size

- When the recording is done in EP mode, the zoom function is not supported except when the recording has been in V mode.

USING MARKERS

Set marks at scenes you want to see again so that you can start playback from the marked position.

Setting Markers

1. Press the **MARKER** button during playback.
2. Press the **OK** button when the desired scene appears.
   • The number 01 is displayed and the scene is memorized.
3. Press the ► button to move to the next position.
4. Press the **OK** button again when the desired scene appears.
   • The number 02 is displayed and the scene is memorized.
   • HDD, DVD-RAM or DVD-RW (VR Mode) discs have the Marker function instead of the Bookmark function. Since the scenes may be displayed as many different pages, numbering is necessary.
   If a disc in use is encoded with Disc Protection, Markers cannot be set or deleted, only playback is available.
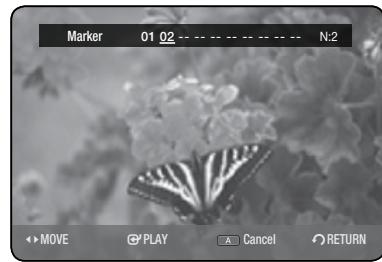
Playing back a marker

1. Press the **MARKER** button during playback.
2. Press the ◄► buttons to select a marked scene.
3. Press the **OK** or **PLAY** (⊙) button to start playing from the selected scene.
   • If you press the **SKIP** (⊙) button, it moves to the beginning of the marker. Pressing the button once again within 3 seconds returns to the beginning of the previous marker.
   • If you press the **SKIP** (⊙) button, it moves to the next marker.

Clearing a marker

1. Press the **MARKER** button during playback.
2. Press the ◄► buttons to select a marked scene.
3. Press the **RED(A)** button to delete the selected mark.
   • When a marker is cleared while HDD/DVD-RAM/-RW (VR mode) is playing, marker numbers will change. For example, if the 7th marker is cleared after ten markers are registered, the marker numbers after the eighth will automatically move back by one and the 8th marker becomes the 7th.

playback

USING THE BOOKMARKS

Setting Bookmarks

1. Press the **MARKER** button during playback.
2. Press the **OK** button when the desired scene appears.
   • The number **1** is displayed and the scene is memorized.
3. Press the ► button to move to the next position.
4. Press the **OK** button again when the desired scene appears.
   The number **2** is displayed and the scene is memorized.
   • Repeat above to bookmark other positions.
   • You can bookmark up to 10 scenes.
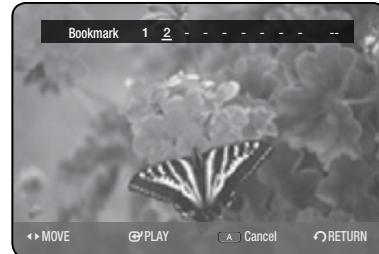
   ✎ ▪ When the disc tray is opened and then closed, bookmarks will disappear.

Playing back a bookmark

1. Press the **MARKER** button during playback.
2. Press the ◄► buttons to select a bookmarked scene.
3. Press the **OK** or **PLAY** (▷) button to start playing from the selected scene.

Clearing a bookmark

1. Press the **MARKER** button during playback.
2. Press the ◄► buttons to select a bookmarked scene.
3. Press the **RED(A)** button to delete the selected bookmark.

Buttons on the Remote Control used for Audio CD(CD-DA)/MP3 playback
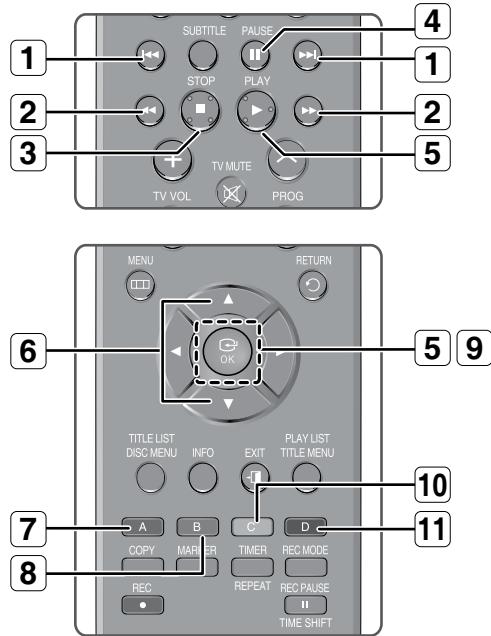
1	**SKIP (⏮ ⏭) button** : Moves to the previous or next page.
2	**Press the SEARCH (⏪ ⏩) buttons** : Fast Play (X 2, X 4, X 8) (Audio CD only)
3	**STOP (⏹) button** : Stops a track(song).
4	**PAUSE (⏸) button** : Pauses playback.
5	**PLAY (▶), OK button** : Plays a track (song).
6	**▲ ▼** : Selects a track (song).
7	**RED(A) button** : • Creates a playlist or go to playlist. • Select All : MP3, CD-DA • Copy : MP3 • CD Import : Audio CD
8	**GREEN(B) button** : Selects the sort order. (MP3 disc only)
9	**OK button** : Plays the selected track (song).
10	**YELLOW(C) button** : Selects the play mode. (REPEAT)
11	**BLUE(D) button** : Selects a contents. (MP3 disc only)

● PLAYBACK

Playing an Audio CD(CD-DA)

1. Insert an audio CD (CD-DA) into the disc tray.
   • The audio CD menu appears and the tracks (songs) are played automatically.
2. Press the ▲▼ buttons to select the track (song) you want to hear, and then press the **OK** button.

Audio CD(CD-DA) Screen Elements
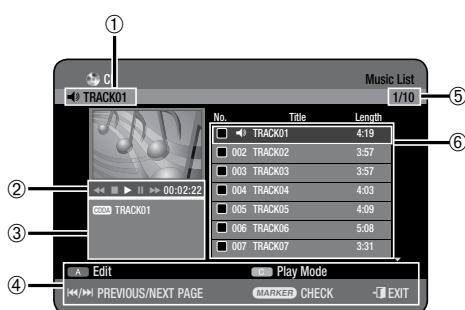
1	**Current track (song)** : Displays the number of the track currently being played.
2	Displays available buttons and a playback time corresponding to a portion that is currently played.
3	Displays the current file type and file name.
4	Display available buttons.
5	Displays the current play index, total track number.
6	Displays the track list (song list).

playback

Playing an MP3 Disc

1. Insert an MP3 disc into the disc tray.
   • The menu is displayed
2. Press the ▲▼ buttons to select **Library**, then press the **OK** or ► button.
3. Press the ▲▼ buttons to select **Music**, then press the **OK** or ► button.
4. Press the ▲▼ buttons to select the track you want to hear, and then press the **OK** button.

MP3 Screen Elements
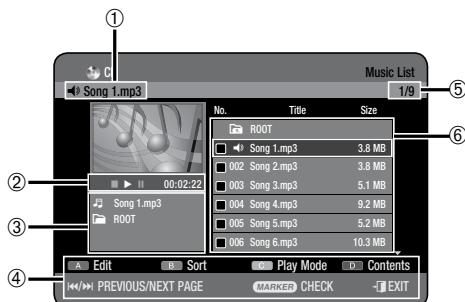
1	**Current track (song)** : Displays the name of the track being played.
2	Displays available buttons and a playback time corresponding to a portion that is currently played.
3	Displays the current file type, file name and folder name.
4	Displays available buttons.
5	Displays the current play index, total track number.
6	Displays the track list (song list).

Repeat CD (CD-DA) & MP3

You can also operate this function by pressing the **REPEAT** button on the remote control.
During playback, press the **REPEAT** button repeatedly to select the repeat mode you want.

1. Press the **YELLOW(C)** button during the Music List playback.
2. Press the ▲▼ buttons to select desired play mode, then press the **OK** or ► button.
   • **Normal (CD (CD-DA)/MP3)** : Tracks on a disc are played in the order in which they were recorded on the disc.
   • ⟳ **Repeat Track (CD (CD-DA)/MP3)**
   • ⟳ **Repeat Folder (MP3)**
   • ⟳ **Repeat All (CD (CD-DA)/MP3)**
   • ⟳ **Random (CD (CD-DA)/MP3)** : The random option plays a disc's tracks in random order.

CD Import

1. Press the **RED(A)** button during the Music List playback.

2. Press the ▲▼ buttons to select **CD Import**, then press the **OK** or ► button.

3. Press the ▲▼ buttons to select file you want to copy, then press the **MARKER** button until a checkmark appears.
   • If you don't want to copy a certain one of the checked entries, simply select that entry and press **MARKER** button to deselect it until a checkmark disappears.

4. Press the ►▲▼ buttons to select the target media,then press the **OK** button.
   • You can create a new folder by pressing the **GREEN(B)** button.

5. Press the **RED(A)** button to select Start Copy.
   The message "Number of file : x" is displayed.

6. Press the ◄► buttons to select **Start**, then press the **OK** button.
   File copy begins.
   • To cancel the copying in progress, press the **EXIT** (🔘) button.

   📖 ▪ The format of a mp3 file after imported is as follows:
   Bitrate 128kbps
   Channel 2(stereo)
   Sampling Rate 44KHz

   ▪ DTS CDDA and copy protected discs can not be imported.

CD			Music List
🔊 TRACK01			1/10

No.	Title	Length
001 🔊 TRACK01		4:19
002 TRACK02		3:57
003 TRACK03		3:57
004 TRACK04		4:03
005 TRACK05		4:09
006 TRACK06		5:08
007 TRACK07		3:31

CD Import 00:02:22
New Playlist
Go To Playlist
Select All

Ⓐ Edit Play Mode
PREVIOUS/NEXT PAGE CHECK EXIT

CD CD Import
Selected Items: Available:
Source : DVD To : HDD
CDDA 3.84MB

	001 TRACK01	📁 HDD
	002 TRACK02	
	003 TRACK03	
	004 TRACK04	
	005 TRACK05	
	006 TRACK06	

Ⓐ Start Copy Ⓑ Sort Select All Ⓓ Unselect All
PREVIOUS/NEXT PAGE CHECK EXIT

CD CD Import
Selected Items: 9.68MB (2) Available: 236724MB
Copying...
Free space : 236623 MB
Number of file : 1 / 2
File Name : Song 1.CDA
33%
006 TRACK06
Ⓐ Start Copy Ⓑ New Folder
EXIT

New Playlist

You can register a maximum 30 tracks in the playlist.

1. Press the **RED(A)** button during the Music List playback.

2. Press the ▲▼ buttons to select **New Playlist**, then press the **OK** or ► button.

3. Press the ▲▼ buttons to select tracks in the order in which you want them to play, then press the **OK** button.
   • If you playlisted a wrong track, press the ►▲▼ buttons to select the wrong track, then press the **OK** button.

4. To store the Playlist, press the **RED(A)** button.
   A new Playlist will be created.

CD Make Playlist

No.	Title	No.	Playlist
001 TRACK01		001 TRACK10	
002 TRACK02		002 TRACK08	
003 TRACK03		003 TRACK04	
004 TRACK04		004 TRACK07	
005 TRACK05			
006 TRACK06			
007 TRACK07			

Ⓐ Save Ⓑ Music List
MOVE ADD RETURN EXIT

CD Playlist

No.	Title	Length
📁 PLAYLIST		
📁 PLAYLIST01		

◄◄ ■ ► ‖ ►► 00:00:00
📁 PLAYLIST

MOVE SELECT CHECK EXIT
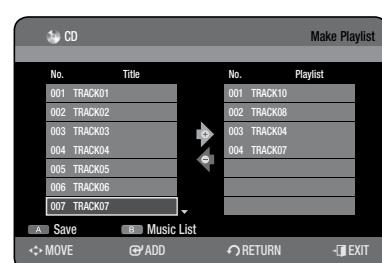
● PLAYBACK

playback

Go To Playlist

1. Press the **RED(A)** button during the Music List playback.
2. Press the ▲▼ buttons to select **Go To Playlist**, then press the **OK** or ► button.
3. Press the ▲▼ buttons to select the desired playlist folder, then press the **OK** button.
   The selected tracks are played automatically.

Delete the Playlist

1. Press the **RED(A)** button during the Music List playback.
2. Press the ▲▼ buttons to select **Go To Playlist**, then press the **OK** or ► button.
3. Press the ▲▼ buttons to select the Playlist you want to delete.
4. Press the **RED(A)** button.
5. Press the ◄► buttons to select **Yes**, then press the **OK** button.
   The selected Playlist is deleted.

✍ ▪ When the player turns off or opens a file /disconnects, any playlists in the disc or USB memory will be deleted.

Go To Edit Playlist

1. Press the **RED(A)** button during the Music List playback.
2. Press the ▲▼ buttons to select **Go To Playlist**, then press the **OK** or ► button.
3. Press the ▲▼ buttons to select the Playlist you want to edit.
4. Press the **GREEN(B)** button in playlist mode.
5. Press the ▲▼ buttons to select tracks in the order in which you want them to play, then press the **OK** button.
   • If you playlisted a wrong track, press the ►▲▼ buttons to select the wrong track, then press the **OK** button.
6. To store the Playlist, press the **RED(A)** button.
   Playlist will be edited.
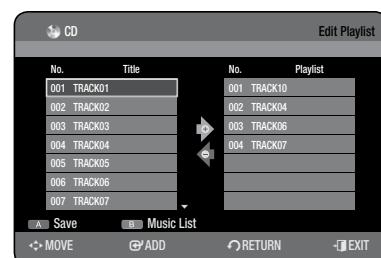
Go To Music List

1. Press the **BLUE(D)** button during the Playlist playback.
   The Music List will be displayed.

```
CD                                    Playlist
TRACK04                          CD      1/4
               No.        Title         Length
               📁  PLAYLIST01
               🎵  TRACK04              4:03
               002 TRACK02              3:57
◄◄ ■ ► II ►► 00:02:22
               003 TRACK06              5:08
CDDA TRACK04   004 TRACK01              4:19
📄  PLAYLIST01

        B  Edit Playlist   C  New Playlist  D  Music List
                                          EXIT
```

Using the Sort

MP3

When you need to change the Sort order of Music List, you can change
it simply.

1. While the list menu is displayed, press the **GREEN(B)** button to
   select **Sort**.
2. Press the ▲ ▼ buttons to select the desired item, then press the
   OK or ► button.
   • **Name** : In alphabetical order
   • **Size** : In order of audio file size.

```
CD                                   Music List
Song 10.mp3                             1/10
               No.        Title          Size
               📁  ROOT
               □ 🔊 Song 10.mp3         3.8MB
               002 Song 1.mp3           5.8MB
■ ► II   00:02:22
               003 Song 2.mp3           5.1MB
🎵 Song 10.mp3  004 Song 3.mp3          9.2MB
📁 ROOT    Name    Song 4.mp3           5.2MB
           Size    Song 5.mp3          10.3MB
  A  Edit    B  Sort    C  Play Mode  D  Contents
  ◄◄/►► PREVIOUS/NEXT PAGE   MARKER CHECK   EXIT
```
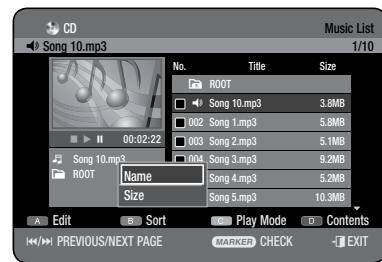
📖 ■ Audio CD(CD-DA) is not available.

   ■ You can sort by Name, Length. Sorted list will be resorted in copied order upon reentering Music List.

Select Contents

MP3

1. Press the **BLUE(D)** button to select **Contents**.
2. Press the ▲ ▼ buttons to select the contents you want to move,
   then Press the **OK** or ► button.

📖 ■ This function is possible only when the disc contains the selected
     contents.

   ■ Audio CD(CD-DA) is not available.

```
CD                                   Music List
Song 10.mp3                             1/10
               No.        Title          Size
               📁  ROOT
               □ 🔊 Song 10.mp3         3.8MB
               002 Song 1.mp3           5.8MB
■ ► II   00:02:22
               003 Song 2.mp3      Title
🎵 Song 10.mp3  004 Song 3.mp3     DivX
📁 ROOT         005 Song 4.mp3     Music      ✓
               006 Song 5.mp3     Photo(With Music)
  A  Edit    B  Sort    C  Play Mode  D  Contents
  ◄◄/►► PREVIOUS/NEXT PAGE   MARKER CHECK   EXIT
```

Music/Photo Simultaneous Playback

MP3

You can listen to the music while watching the photo.

1. Press the **BLUE(D)** button to select **Contents**.
2. Press the ▲ ▼ buttons to select the **Photo(With Music)**, then
   Press the **OK** or ► button.
   The photo List will be displayed. (See page 62)

📖 ■ To operate this function, you have to select the disc containing both
     music files and photo file.

```
CD                                   Music List
Song 10.mp3                             1/10
               No.        Title          Size
               📁  ROOT
               □ 🔊 Song 10.mp3         3.8MB
               002 Song 1.mp3           5.8MB
■ ► II   00:02:22
               003 Song 2.mp3      Title
🎵 Song 10.mp3  004 Song 3.mp3     DivX
📁 ROOT         005 Song 4.mp3     Music
               006 Song 5.mp3     Photo(With Music) ✓
  A  Edit    B  Sort    C  Play Mode  D  Contents
  ◄◄/►► PREVIOUS/NEXT PAGE   MARKER CHECK   EXIT
```

● PLAYBACK

playback

VIEWING A PICTURE

JPEG

1. Insert a JPEG disc into the disc tray.
   • The menu is displayed

2. Press the ▲▼ buttons to select **Library**, then press the **OK** or ►
   button.

3. Press the ▲▼ buttons to select **Photo**, then press the **OK** or ►
   button.
   • To see the next 8 pictures, press the **SKIP** (⊙) button.
   • To see the previous 8 pictures, press the **SKIP**(⊙) button.

4. Press the ▲▼◄► buttons to select a desired picture, then press the **OK** button.
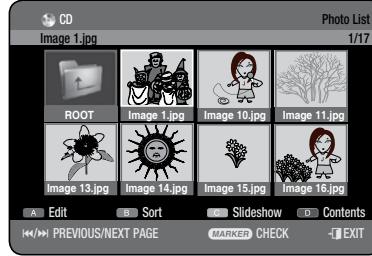
### Slide Show

To setup, follow steps 1 and 4 above.

5. Press the **PLAY** (⊙) button.
   • Once in the Photo List, you can also operate slideshow in by
     pressing the **YELLOW(C)** button.

6. Press the **RED(A)** button to select **Speed**.

7. Press the ▲▼ buttons to select the slideshow speed, then press
   the **OK** or ► button.
   The slideshow starts and plays at the selected speed.
   • You can go to **Photo List** by pressing **YELLOW(C)** button.
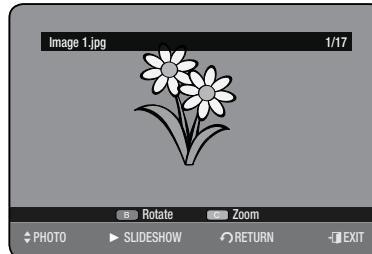
❖ **To stop the Slide Show**
   Press the **GREEN(B)**, **STOP** (⊙) or **RETURN** button.
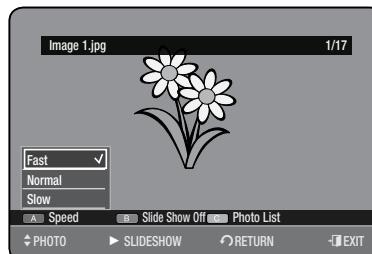
Rotate

To setup, follow steps 1 and 4 above.

5⁻¹. Press the **GREEN(B)** button to select **Rotate**.

6. Press the ▲▼ buttons to select the rotate angle, then press the
   OK or ► button.
   • Once you select a rotate angle, you can change it by pressing the
     RED(A) button.
   • You can go to **Photo List** by pressing **YELLOW(C)** button.
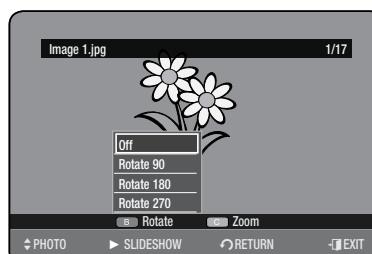
❖ **To stop the Rotate**
   Press the **GREEN(B)**, **STOP** (⊙) or **RETURN** button.
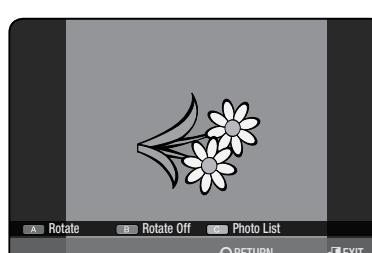
Zoom

To setup, follow steps 1 to 4 in page 62.

5-1. Press the **YELLOW(C)** button to select **Zoom**.

6. Each time the **OK** button is pressed, the picture is enlarged up to 4x (four times the normal size).

X2 ➝ X4 ➝ X2 ➝ Normal
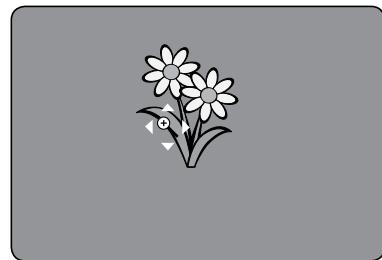
• You can go to **Photo List** by pressing **YELLOW(C)** button.

❖ **To stop the Zoom**
Press the **GREEN(B)**, **STOP** (◉) or **RETURN** button.

Go To Photo List

To setup, follow steps 1 to 4 in page 62.

5-1. Press the **RETURN** button to go to **Photo List**.

Using the Sort

When you need to change the Sort order of Photo List, you can change it simply.

1. While the list menu is displayed, press the **GREEN(B)** button to select **Sort**.

2. Press the ▲▼ buttons to select the desired item, then press the **OK** or ► button.
• **Name** : In alphabetical order
• **Size** : In order of photo file size.
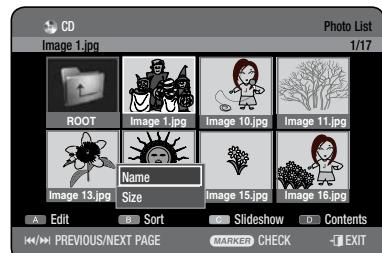
📖 ▪ You can sort by Name and Size. Sorted list will be resorted in copied order upon re-entering Photo List.

Select Contents

To setup, follow steps 1 to 3 in page 62.

1. Press the **BLUE(D)** button to select **Contents**.

2. Press the ▲▼ buttons to select the contents you want to move, then Press the **OK** or ► button.

📖 ▪ This function is possible only when the disc contains the selected contents.
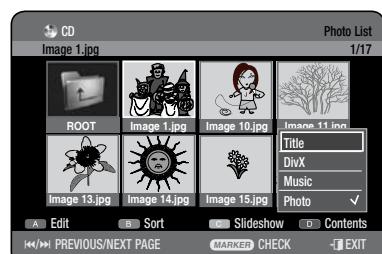
playback

PLAYING A DIVX

Using the MENU button

1. Insert a DivX disc into the disc tray.
   • The menu is displayed
2. Press the ▲▼ buttons to select **Library**, then press the **OK** or ▶ button.
3. Press the ▲▼ buttons to select **DivX**, then press the **OK** or ▶ button.
4. Press the ▲▼ buttons to select the avi file (DivX), then press the **OK** or **PLAY** (⊙) button.
5. When DivX file is played, you can use following functions. Pressing the **STOP** (⊙) button once during playback will display the file list, pressing the button again will exit the menu screen.
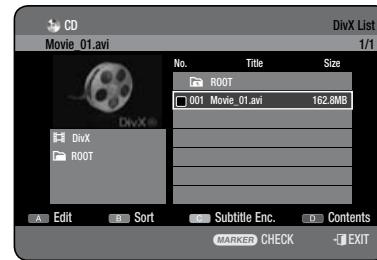
DivX Function Description

Function	Description
Skip Scene	During play, press the **SKIP** (⊙⊙) buttons, it moves forward or backward 5 minutes.
Search	During play, press the **SEARCH** (⊙⊙) buttons and press again to search at a faster speed. (X 2, X 4, X 8)
Slow Motion Play	In pause mode(⊙), press the **SEARCH** (⊙) button on the remote control. (1/2, 1/4, 1/8) Reverse Slow Motion Play is not available.
Step Motion Play	In pause mode(⊙), press the **SKIP** (⊙) button on the remote control in the still mode. Reverse Step Motion Play is not available.

✎ ▪ Some DivX files created on a personal computer may not be play back. That is why Codec Type, Version and Higher resolution over specification are not supported.

DivX Subtitle Encoding

1. Press the **YELLOW(C)** button in the file list.
2. Press the ▲▼ buttons to select a supported DivX subtitle language by region, then press the **OK** button.

64_ playback
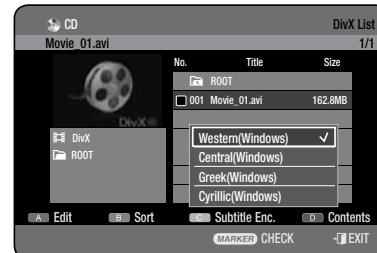
Western	Afrikaans, Basque, Catalan, Danish, Dutch, English, Faeroese, Finnish, French, German, Icelandic, Indonesian, Italian, Malay, Norwegian, Portuguese, Spanish, Swahili, Swedish
Central	English, Albanian, Croatian, Czech, Hungarian, Polish, Romanian, Serbian(Latin), Slovak, Slovenian
Greek	English, Greek
Cyrillic	English, Azeri, Belarusian, Bulgarian, Kazakh, Macedonian, Russian, Serbian, Tatar, Ukrainian, Uzbek

✍ ▪ If the subtitle language is displayed in broken fonts, change DivX Subtitle to the appropriate region. If is still does not work, the format is not supported.

Using the Sort

When you need to change the Sort order of DivX List, you can change it simply.

1. While the list menu is displayed, press the **GREEN(B)** button to select **Sort**.

2. Press the ▲ ▼ buttons to select the desired item, then press the **OK** or ► button.

- **Name** : In alphabetical order
- **Size** : In order of DivX file size.
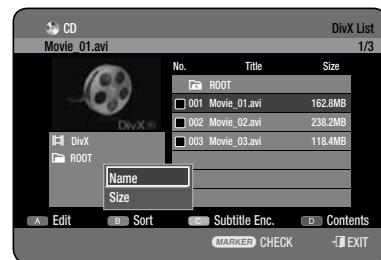
✍ ▪ You can sort by Name, Size. Sorted list will be resorted in copied order upon reentering DivX List.

Select Contents

1. Press the **BLUE(D)** button to select **Contents**.

2. Press the ▲ ▼ buttons to select the contents you want to move, then Press the **OK** or ► button.

✍ ▪ This function is possible only when the disc contains the selected contents.

recording

This section shows various HDD & DVD Recording methods.
This unit can record on various types of discs. Before recording, read the following instructions and select the disc type according to your preference.

RECORDABLE DISCS

This HDD & DVD RECORDER can record on the following discs.

HDD	DVD-RAM	DVD-RW	DVD-R	DVD+RW	DVD+R
HDD	DVD RAM	DVD RW	DVD R	RW DVD+ReWritable	RW DVD+R

- DVD-RAMs and DVD±RWs are rewritable.
- DVD±Rs are non-rewritable.

Compatibility between Samsung and Other Company's Recorder

Disc Types	Recording format	Recording Device	Finalising	Additional Recording in Samsung Recorder
DVD-RAM	VR Mode	Samsung	X	Recordable
		Other Company	X	Recordable
DVD-RW	VR Mode	Samsung	finalised	Not recordable
			not finalised	Recordable
		Other Company	finalised	Not recordable
			not finalised	Recordable
	V Mode	Samsung	finalised	Not recordable
			not finalised	Recordable
		Other Company	finalised	Not recordable
			not finalised	Not recordable
DVD-R	V Mode	Samsung	finalised	Not recordable
			not finalised	Recordable
		Other Company	finalised	Not recordable
			not finalised	Not recordable
DVD+RW	–	Samsung	X	Not recordable in some cases
		Other Company	X	Not recordable in some cases
DVD+R	–	Samsung	finalised	Not recordable
			not finalised	Not recordable in some cases
		Other Company	finalised	Not recordable
			not finalised	Not recordable in some cases

■ Finalise

    - This closes the DVD-RW/±R so no additional recording can be done.

■ Unfinalise

    - This allows additional recording on a DVD-RW disc originally recorded on the HDD & DVD RECORDER.

    - A DVD-RW disc that has been recorded by DAO(Disc At Once) in a PC cannot be unfinalised.

    - A DVD-RW disc that has been recorded in Video Mode of a different maker's recorder cannot be unfinalised.

    - A DVD±R disc cannot be unfinalised.

RECORDING FORMATS

When you insert an unused disc, the following message appears. Since available functions differ depending on the disc type, select a disc that best fits your preferences.

DVD-RAM/+R : Formatting will be started automatically.

DVD+RW : Use after formatting the disc.

DVD-RW : Use after initializing the disc.
        If you want to change the VR or V mode, refer to Formatting a Disc on page 96.

DVD-R : Formatting disc is unnecessary and only V Mode Recording is supported.

DVD-RAM/-RW(VR mode)

• This mode allows multiple editing functions (such as deletion of the whole title, partial deletion of a title, etc.).
• Various editing options using a created Playlist.

DVD-RW(V mode)/-R

• Chapters will be created automatically when you finalise recording on DVD-RW/-R discs in V mode.
  The chapter's length (interval between chapters) varies according to the recording mode.
• Simple editing (erasing titles/changing title name).

DVD+RW

• With DVD+RW discs, there is no difference between DVD-Video format(Video mode) or DVD-Video Recording format(VR mode).

recording

RECORDING MODE

Select one of four recording modes by pressing the **REC MODE** button repeatedly while the unit is in Stop mode for the desired recording time and picture quality. In general, picture quality improves as the recording time decreases. In FR mode, the most suitable record mode is adjusted automatically, according to remaining time on the disc and length of the timer recording. This function is selected only one mode in XP, SP, LP and EP modes and you can use this mode for timer recording.

• DVD-HR773

Recording Mode	Recording Times	
	HDD (160GB)	DVD-RAM/±RW/±R
XP (high quality mode)	Approx. 33 hours	Approx. 1 hour about 8.5 Mbps
SP (standard quality mode)	Approx. 67 hours	Approx. 2 hours about 4.5 Mbps
LP (long recording mode)	Approx. 133 hours	Approx. 4 hours about 2 Mbps
EP (extended mode)	Approx. 199 hours / Approx. 264 hours	Approx. 6 hours/ about 1.6 Mbps / Approx. 8 hours/ about 1.2 Mbps
FR (Flexible Recording)	Approx. 33 hours ~ 264 hours	Approx. 1~8 hours

• DVD-HR775

Recording Mode	Recording Times	
	HDD (250GB)	DVD-RAM/±RW/±R
XP (high quality mode)	Approx. 53 hours	Approx. 1 hour about 8.5 Mbps
SP (standard quality mode)	Approx. 106 hours	Approx. 2 hours about 4.5 Mbps
LP (long recording mode)	Approx. 211 hours	Approx. 4 hours about 2 Mbps
EP (extended mode)	Approx. 316 hours / Approx. 421 hours	Approx. 6 hours/ about 1.6 Mbps / Approx. 8 hours/ about 1.2 Mbps
FR (Flexible Recording)	Approx. 53 hours ~ 421 hours	Approx. 1~8 hours

• DVD-HR777

Recording Mode	Recording Times	
	HDD (320GB)	DVD-RAM/±RW/±R
XP (high quality mode)	Approx. 68 hours	Approx. 1 hour about 8.5 Mbps
SP (standard quality mode)	Approx. 135 hours	Approx. 2 hours about 4.5 Mbps
LP (long recording mode)	Approx. 270 hours	Approx. 4 hours about 2 Mbps
EP (extended mode)	Approx. 405 hours Approx. 534 hours	Approx. 6 hours/ about 1.6 Mbps Approx. 8 hours/ about 1.2 Mbps
FR (Flexible Recording)	Approx. 68 hours ~ 534 hours	Approx. 1~8 hours

■ Recording time may vary according to specific conditions.

■ 1GB = 1,000,000,000 bytes; actual formatted capacity may be less as the internal firmware uses a portion of the memory.

■ The dual layer DVD±Rs have approximately double the capacity of single layer DVD±Rs. (See page 50)

UNRECORDABLE PICTURES

Video with copy protection cannot be recorded on this HDD & DVD RECORDER.

When the HDD & DVD RECORDER receives a copy- guard signal while recording, recording stops and the following message appears on the screen.

Concerning Copy Control Signals

TV broadcasts that contain copy control signals may have one of the following three signal types, Copy-Free, Copy-Once and Copy-Never. If you want to record a copy-once type programme, use DVD-RW with CPRM in VR Mode, DVD-RAM, HDD.

Media / Signal type	Copy-Free	Copy-Once	Copy-Never
DVD-RW (Ver.1.1)	0	–	–
DVD-RW(Ver.1.1) with CPRM			
VR mode	0	0*	–
V mode	0		–
DVD-R	0		–
DVD-RAM (Ver.2.0)	0	0*	–
DVD+RW	0	–	–
DVD+R	0	–	–
HDD	0	0*	–

Once "Copy Once" has been recorded, recording cannot be done anymore.

❖ **Content Protection for Recordable Media (CPRM)**

CPRM is a mechanism that ties a recording to the media on which it is recorded. It is supported by some HDD & DVD RECORDERs, but not by many DVD players. Each blank recordable DVD has a unique 64-bit media ID etched in the BCA. When protected content is recorded onto the disc, it can be encrypted with a 56-bit C2 (Cryptomeria) cipher derived from the media ID.

During playback, the ID is read from the BCA and used to generate a key to decrypt the contents of the disc. If the contents of the disc are copied to other media, the ID will be absent or wrong and the data will not be decryptable.

● RECORDING

recording

RECORDING IMMEDIATELY

HDD DVD-RAM DVD-RW DVD-R DVD+RW DVD+R

Before you start

1. Check that the disc has enough available space for the recording.

2. Press the **HDD** or **DVD** button.
   If you select DVD, Press the **OPEN/CLOSE** button and place a recordable disc on the disc tray.
   Press the **OPEN/CLOSE** button to close the disc tray.
   Wait until **LOAD** disappears from the front panel display.

Recording the current TV programme you are watching

1. Press the **PROG** (⌄ ⌃) or number buttons to select the current programme you want to record.

2. Press the **REC MODE** button repeatedly, (or press the **REC MODE** button and then press the ▲▼ buttons) to select the recording speed(quality).

   ┌→ SP → LP → EP → XP ┐
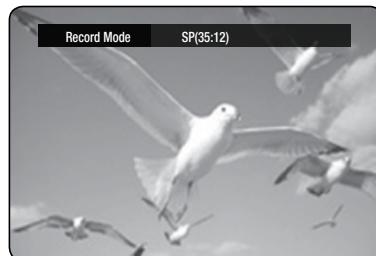
3. Press the **REC** button.
   Information concerning the channel is displayed on the screen, then recording begins.

   Icon(●REC) is displayed on the front panel.

Record Mode   SP(35:12)

HDD
● Recording:
PR 1 [SP]

Recording from external equipment you are watching

1. Press the **INPUT SEL.** button to select the input source according to the connection you made.
   The front panel display changes in the following sequence:

   ┌→ PR Number → AV1 → AV2 → DV ┐

   If you connect a digital camcorder, press the **INPUT SEL.** button to select **DV**. (See page 71)

2. Press the **REC MODE** button repeatedly, (or press the **REC MODE** button, then press the ▲▼ buttons) to select the recording speed (quality).

3. Press the **REC** button.
   Information concerning the external input mode is displayed on the screen, then recording begins.
   Icon(●REC) is displayed on the front panel.

To pause recording

- Press the **REC PAUSE** button to pause a recording in progress.
- Press the **REC PAUSE** button again during pause to resume recording.
- You can switch channels by pressing the **PROG** (⊙ ⊙) buttons while recording pauses.
- If you select DV mode during rec pause, recording will be stopped.
  If you change the input source during rec pause in DV mode , recording will be stopped.

To stop recording

Press the **STOP** (⊙) button to stop or finish a recording in progress.

- When using DVD-RAM/±RW/±R discs, the message "Updating the information of disc. Please wait for a moment" is displayed.

> ✎ ▪ You can not change the recording mode while recording.
>
> ▪ Recording will stop automatically if there is no free space left for recording.
>
> ▪ Up to 99 titles can be recorded onto a DVD-RAM/-RW/-R disc, and up to 48 titles onto a DVD+RW/+R disc.
>
> ▪ Up to 999 titles can be registered on the HDD.
>
> ▪ HDD recording is available for up to 24 hours, and when recording for 24 hours, 3 titles will be recorded with each being 8 hours in length.
>
> ▪ Recording will stop automatically if a copy protected image is selected.
>
> ▪ DVD-RAM/±RW discs must be formatted before starting to record. Most new discs are sold unformatted.
>
> ▪ Do not use DVD-R authoring discs with this unit.

COPYING FROM A CAMCORDER

HDD DVD-RAM DVD-RW DVD-R DVD+RW DVD+R

You may control the Camcorder using the IEEE1394 (DV) interface.

1. Connect the DV output jack of your camcorder to the DV input jack on the front of your HDD & DVD RECORDER using a DV cable.
2. Press the **HDD** or **DVD** button.
    If you select DVD, press the **OPEN/CLOSE** button and place a recordable disc on the disc tray. Press the **OPEN/CLOSE** button to close the disc tray. Wait until **LOAD** disappears from the front panel display.
3. Press the **REC MODE** button repeatedly to select the recording speed(quality).
4. Press the **INPUT SEL.** button to select **DV**.
    If the input is set to DV, a playback/record menu that enables camcorder control appears on the top of the screen.
5. Select the Play (▶) icon on the upper part of the screen to playback the camcorder and find the starting position to copy.
6. To start recording, use the ◄► buttons to select Record (●) icon in the top side of the screen, then press the **OK** button.
    You can press the **REC** button of the remote control to start recording.

Record Mode   SP(35:12)

DV ▯▯▯▯▯▶▯▯

The DV device is connected

◄►MOVE   ↻RETURN

English _**71**
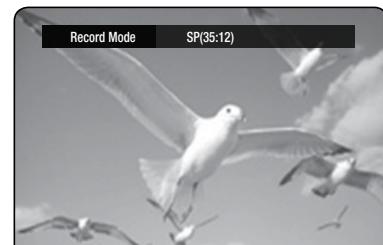
recording

To stop recording

Press the **STOP** (◉) button to stop or finish a recording in progress.

• When using DVD-RAM/±RW/±R discs, the message "Updating the information of disc. Please wait for a moment" is displayed.

> ■ To display playback related icons on the screen, press any direction button on the remote control.

MAKING A ONE TOUCH RECORDING (OTR)

You can set the HDD & DVD RECORDER to record in 30-minute increments up to 8 hours by pressing the **REC** button.

1. Press the **HDD** or **DVD** button.
   If you select DVD, press the **OPEN/CLOSE** button and place a recordable disc on the disc tray. Press the **OPEN/CLOSE** button to close the disc tray. Wait until **LOAD** disappears from the front panel display.

2. Press the **PROG** (⌄ ⌃) or number buttons to select the programme to record.

3. Press the **REC** button to start recording.

4. Press the **REC** button repeatedly to adjust the desired recording time.

   ┌→ 0:30 → 1:00 → ... 8:00 → Off ┐

> ■ The timer counter decreases by the minute from 8:00 to 0:00, then the HDD & DVD RECORDER stops recording.

HDD
● Recording:
PR 1 [SP]

OTR Mode   0:30
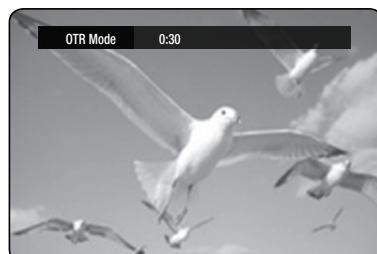
To stop recording

Press the **STOP** (◉) button. The message "Do you want to stop recording?" is displayed.

• Press the ◄► buttons to select **Yes**, then press the **OK** button.

• Or press the **STOP** (◉) button again.

SIMULTANEOUS RECORDING AND PLAYBACK

You can play back from the beginning of the programme you are currently recording.
You can watch the previous title list while recording a programme.

Using the PLAY (▶) button

1. With the unit in recording mode, press the **PLAY** (▶) button.
   It plays back the title that you are currently recording from the beginning.
   Playback is not available for 10 seconds from the start of recording.
   You can use the **SKIP** (⏮ ⏭) and other playback-related buttons to view the previous recorded list.
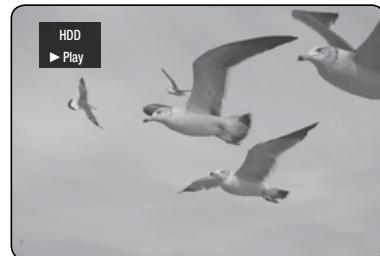
Stopping Playback / Recording

1. Press the **STOP** (■) button. Playback screen disappears and the recording in progress screen appears.
2. Pressing the **STOP** (■) button once more will stop the recording.

Using the TITLE LIST button

1. With the unit in recording mode, press the **TITLE LIST** button.
   The above operation is possible from approx.10 seconds or more after recording starts.
   Press the ▲▼/**SKIP** (⏮ ⏭) buttons to select the recording title list.
2. Press the **OK** or **PLAY** (▶) button.
   It plays back the title that you are currently recording from the beginning.
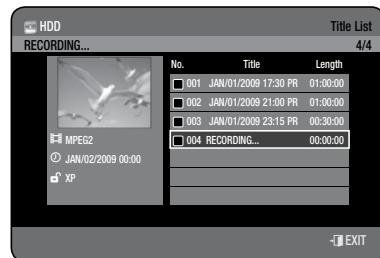
Using the MENU button

1. With the unit in recording mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Title**, then press the **OK** button. Title List screen is displayed.
3. Press the ▲▼/**SKIP** (⏮ ⏭) buttons to select the recording title list, then press the **OK** or ▶ button.
   It plays back the title that you are currently recording from the beginning.

Stopping Playback / Recording

1. Press the **STOP** (■) button once, playback screen disappears and the Title List screen appears.
2. Pressing the **MENU** (▥) button again, the recording in progress screen appears.
3. Pressing the **STOP** (■) button once more will stop the recording.

   ✎ ▪ No sound is heard during search mode.

      ▪ DVD disc or HDD playback is available during HDD recording. However, JPEG, MP3, and DivX files in the disc cannot be played back.

      ▪ HDD playback is available during DVD recording. However, JPEG and MP3 files in the HDD cannot be played back.

recording

TIME SHIFT FUNCTION AS A LIVE SIGNAL

This function replays recordings as a live signal.
If you are interrupted while watching a TV programme, simply press the **TIME SHIFT** button, and the HDD & DVD RECORDER immediately starts recording the programme.

Using the Time Shift function

1. Press the **TIME SHIFT** button on the remote control.
The Time Shift menu is displayed.

2. Press the ▲▼ button to select **On**, then press the **OK** button.

3. While watching the currently broadcasting programme, press the **PAUSE** (⏸) button.
The programme on TV is set in pause mode and the Time Shift Bar is displayed.

4. Press the **PLAY** (▶) button to resume watching the programme.

Time Shift Screen Elements
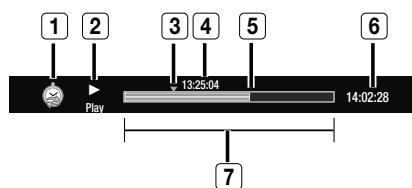
1	Informs you that the timeshift is currently working.
2	Displays the current status.
3	Watching Point.
4	Current play time.
5	Live Point.
6	Live Time.
7	Time Shift Time Bar

Buttons on the Remote Control used for Time Shift function

1. **PLAY** (▶) button : Playback.
2. **PAUSE** (⏸) button : Pause live TV.
3. **SEARCH** (◀◀▶▶) buttons : Fast play (X 2, X 4, X 8, X 16, X 32, X 128)
4. **SKIP** (▶▶|) button, **STOP** (■) button : Moves to Live point.
5. **STOP** (■) button : If you press this button in the Live point, a dialog box appears where you can stop Time Shift.
6. **SKIP** (|◀◀) button : Returns to the point where Time Shift begins.
7. **EXIT** (⊡) or **RETURN** button : Hides the Time Shift icon or the time bar.
8. ◀ ▶ : Display Time shift Progressive Bar.

   ✎ ▪ The Time Shift is available only when HDD mode is selected.
   ▪ You can use this function for up to maximum two hours.
   ▪ You can only play the contents by using the menu when the Time Shift is set to **On**.
   ▪ Press **TIME SHIFT** button to cancel the Time shift function.

MAKING A TIMER RECORDING

1. Check if the antenna cable is connected.
2. Check the remaining time of the disc.
3. Check if the date and time are correct.

Make sure the Clock (Setup-Clock Set) is set before you proceed with a timer recording. (See page 34)

Using the TIMER button

1. **With the unit in Stop mode, press the TIMER button.**

2. **Press the ▲▼ buttons to select the Scheduled List, then press the OK or ► button.**

3. **Press the OK button to select Add a list.**

4. **Set timer recording option.**
   - Fill the input items using the ▲ ▼ ◄► buttons and number buttons.
     - ◄ ► : Moves to the previous/next item.
     - ▲▼, 0~9 : Sets a value.
   - **To** : Select the media to record HDD or DVD.
   - **Source** : The video input source (AV1, AV2), or the broadcasting channel you want to make a timer recording from.
   - **Date** : Timer Recording allows setting the recording time within one month period. Set the recording day. (month/day)
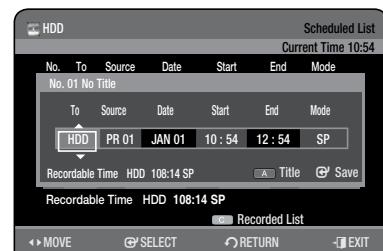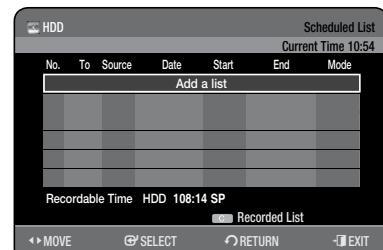
JAN 31	Every SUN
JAN 30	⋮
JAN 29	Every SAT
⋮	MON-FRI
JAN 02	MON-SAT
JAN 01	Every Day

- **Start/End Time :** Start and end time of the timer recording.
- **Mode (Recording Mode) :**
  - FR (Flexible Recording) : Select when you want to set video quality automatically. In FR mode, the most suitable record mode is adjusted automatically, according to remaining time on the disc and length of the timer recording. This function is selected only one mode in XP, SP, LP and EP modes.
  - XP (high quality) : Select when video quality is important.
  - SP (standard quality) : Select to record in standard quality.
  - LP (low quality) : Select when a long recording time is required.
  - EP (extended) : Select when a longer recording time is required.

recording

• **TITLE :** To label the title name, press the **RED(A)** button.
Title renaming screen appears.
Follow steps 4 and 5 of "Renaming (Labelling) a Title" on pages 79~80.

5. After selecting the set up value for each mode, press the **OK** button to select **Save**.

• ⏱ will appear on the front panel. It means that a timer recording is registered.

If the timer settings overlap;
The programmes are recorded in order of priority. After recording of the first programme is complete, the second programme starts being recorded.

To exit without saving the current setting
Press the **EXIT (⏻)** button.

To return to the previous menu
Press the **RETURN** button if you don't want to set a timer recording.

6. Turn the power off to finish the Timer Recording setting.
Timer Recording will not work when the power is on.

✐ ▪ The timer recording time may differ from the set time depending on disc status and overall timer recording status (for example, recording times overlapping, or when the previous recording ends within 2 minutes before the start time of the next recording.)

▪ You can make up to 12 Timer Recordings.

▪ If HDD disk has no available recording space, ⏱ blinks. It means that HDD disk has no space to record.

Editing the Scheduled List

Follow these directions to edit the Scheduled List.

To setup, follow steps 1 to 2 in "Making a Timer Recording" on page 75.

3. Press the ▲▼ buttons to select the number of the Scheduled List you want to edit, then press the **OK** button.

• Edit the items you want to modify. See the "Making a Timer Recording" section for more information on Timer Recording Input items. (See pages 75~76)

4. Press the **OK** button to confirm the edited setting.

5. Press the **EXIT (⏻)** button after finishing the operation. The Scheduled List screen will disappear.

🖴 HDD						Scheduled List
						Current Time 10:54
No.	To	Source	Date	Start	End	Mode
--	---	----	-- --	--:--	--:--	--
01	HDD	PR 01	JAN 01	17:30	18:30	SP
02	HDD	PR 03	JAN 01	14:00	16:30	SP
03	HDD	PR 07	JAN 01	13:00	13:20	SP
Recordable Time HDD **108:14 SP**						
▯ A Add		▯ B Delete		▯ C Recorded List		
◄♦► MOVE		☞ SELECT		↺ RETURN		◁▯ EXIT

Adding a Scheduled List

Follow these directions to add an entry from the Scheduled List

To setup, follow steps 1 to 2 in "Making a Timer Recording" on page 75.

3. Press the ▲▼ buttons to select the number of the Scheduled List, then press the **RED(A)** button.

• Set the items you want to add. See the "Making a Timer Recording" section for more information on Timer Recording Input items.(See pages 75~76)

4. Press the **OK** button to confirm the added setting.

5. Press the **EXIT** (ⓘ) button after finishing the operation. The Scheduled List screen will disappear.

Deleting a Scheduled List

Follow these directions to delete an entry from the Scheduled List.

To setup, follow steps 1 to 2 in "Making a Timer Recording" on page 75.

3. Press the ▲▼ buttons to select the number of the Scheduled List you want to delete, and then press the **GREEN(B)** button.
  • You will be prompted with the delete confirm message such as "Do you want to delete?".

4. Press the ◄► buttons to select **Yes**, then press the **OK** button.
  • The selected entry will be deleted from the list.

5. Press the **EXIT** (ⓘ) button after finishing the operation. The Scheduled List screen will disappear.

GO TO RECORDED LIST

You can view a list of the programmes that have been recorded.

Using the TIMER button

1. With the unit in Stop mode, press the **TIMER** button.

2. Press the ▲▼ buttons to select **Recorded List**, then press the **OK** or ► button.

3. Press the **EXIT** (ⓘ) button after finishing the operation. The Recorded List screen will disappear.

No.	To	Source	Date	Start	End	Mode	Status
01	HDD	PR 01	JAN 01	14:30	15:30	SP	OK
02	HDD	PR 01	JAN 01	16:00	16:30	SP	OK
03	HDD	PR 01	JAN 01	17:30	18:30	SP	OK

HDD — Recorded List

Ⓐ Delete   Ⓑ Delete All   Scheduled List

↕ MOVE   ☞ SELECT   ↻ RETURN   EXIT

English _**77**

Information about Recorded List

Informs whether the selected Recorded List performed a Timer Recording successfully.

3⁻¹. Press the ▲ ▼ buttons to select the number of the **Recorded List**, then press the **OK** button.

HDD						Recorded List
No.	To	Source	Date	Start	End	Mode Status

Timer rec was finished successfully

OK

A Delete　　B Delete All　　C Scheduled List
SELECT　　RETURN　　EXIT
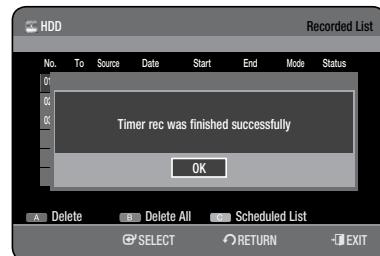
Delete Recorded List

Deletes a Recorded List individually.

3⁻¹. Press the ▲ ▼ buttons to select the number of the **Recorded List** you want to delete, and then press the **RED(A)** button.

4. Press the ◄ ► buttons to select **Yes**, then press the **OK** button.

HDD						Recorded List
No.	To	Source	Date	Start	End	Mode Status

No. 01

Do you want to delete?

Yes　　No

A Delete　　B Delete All　　C Scheduled List
MOVE　　SELECT　　RETURN　　EXIT
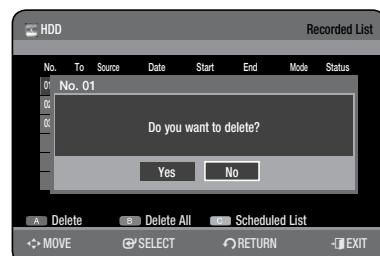
Clear Recorded List

Clears all Recorded List at once.

3⁻¹. Press the **GREEN(B)** button.

4. Press the ◄ ► buttons to select **Yes**, then press the **OK** button.

HDD						Recorded List
No.	To	Source	Date	Start	End	Mode Status

Do you want to delete a recorded list?

Yes　　No

A Delete　　B Delete All　　C Scheduled List
MOVE　　SELECT　　RETURN　　EXIT
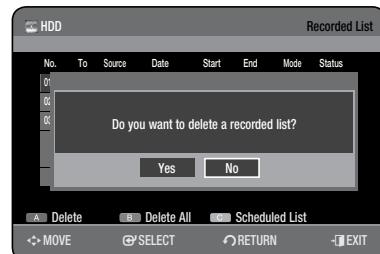
Go to Scheduled List

Switches directly from the Recorded List to the Scheduled List.

3⁻¹. Press the **YELLOW(C)** button.

HDD						Scheduled List
						Current Time 10:54
No.	To	Source	Date	Start	End	Mode
			Add a list			

Recordable Time HDD 105:44 SP

C Recorded List

MOVE　　SELECT　　RETURN　　EXIT
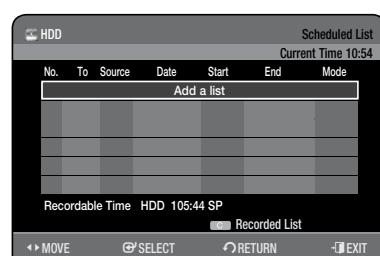
editing

This section introduces basic functions of editing and explains both edit functions for the recording on a disc and edit functions for the entire disc.
Recording or editing might not be completed if an error, such as a sudden power failure occurs.
Please be aware that material that has been damaged is unable to be reverted back to its original state.

BASIC EDITING (TITLE LIST)

Playing the Title

HDD DVD-RAM DVD-RW DVD-R DVD+RW DVD+R

Follow these instructions to play back a scene from the Title List.

Using the TITLE LIST button

1. With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.
2. Press the ▲ ▼ buttons to select an entry you want to play from Title List, then press the **OK** or **PLAY** (▶) button.
   The selected entry (title) will be played back.
3. To stop title play, press the **STOP** (■) button.
   The screen returns to the Title List screen.

	HDD		Title List
JAN/01/2009 17:30 PR1			1/3

No.	Title	Length
001	JAN/01/2009 17:30 PR	01:00:00
002	JAN/02/2009 21:00 PR	01:00:00
003	JAN/03/2009 23:15 PR	00:30:00

MPEG2
JAN/01/2009 17:30
SP
V-Mode Compatibility

A Edit   B Sort   Go to   D Contents   MARKER CHECK   EXIT

Renaming (Labelling) a Title

HDD DVD-RAM DVD-RW DVD-R DVD+RW DVD+R
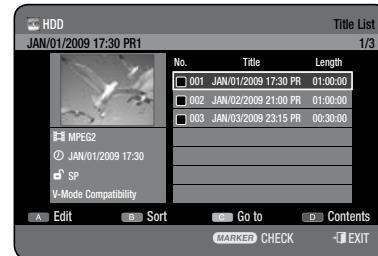
Follow these instructions to rename a title list entry, i.e., to edit the title of a recorded programme.

Using the TITLE LIST button

1. With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.
2. Press the ▲ ▼ buttons to select an entry you want to rename from the Title List, then press the **RED(A)** button.
3. Press the ▲ ▼ buttons to select **Rename**, then press the **OK** or ▶ button.
   The Rename screen is displayed.
4. Select the desired characters using the ▲ ▼ ◄ ► buttons, press the **OK** button.
   - **Back Space (RED(A) button) :** Deletes and moves the cursor backwards by one position.
   - **Space (GREEN(B) button) :** Enters a blank and moves the cursor one forward (to the right).
   - **Clear (YELLOW(C) button) :** Deletes all the character inputs.
   - **Save (BLUE(D) button) :** Registers the character inputs.

	HDD		Title List
JAN/01/2009 17:30 PR1			1/3

No.	Title	Length
001	JAN/01/2009 17:30 PR	01:00:00
002	JAN/02/2009 21:00 PR	01:00:00
003	JAN/03/2009 23:15 PR	00:30:00

MPEG2
JAN/01/2009 17:30
SP
V-Mode Compatibility

A Edit   B Sort   Go to   D Contents   MARKER CHECK   EXIT

	HDD		Title List
JAN/01/2009 17:30 PR1			1/3

Delete
Copy
Rename
Protection
Partial Delete
Split
New Playlist
Select All

No.	Title	Length
001	JAN/01/2009 17:30 PR	01:00:00
002	JAN/02/2009 21:00 PR	01:00:00
003	JAN/03/2009 23:15 PR	00:30:00

A Edit   B Sort   Go to   D Contents   MARKER CHECK   EXIT
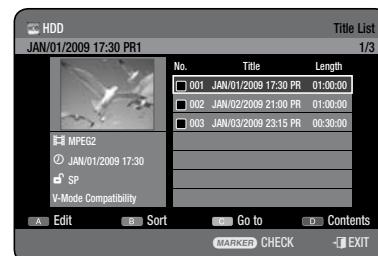
editing

5. Press the **BLUE(D)** button to select **Save**.
   The changed title name is displayed on the title item of the selected entry.
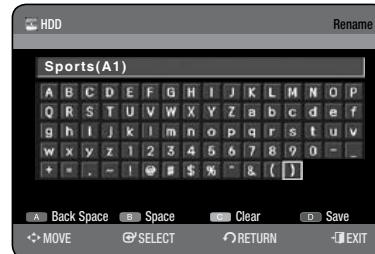
Locking (Protecting) a Title

Follow these instructions to lock an entry to protect it from accidental editing.

Using the TITLE LIST button

1. With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.

2. Press the ▲▼ buttons to select an entry you want to protect from the Title List, then press the **MARKER** button until a checkmark appears. Repeat this step to select an additional title you want to protect.
   • If you don't want to protect a certain one of the checked entries, simply select that entry and press **MARKER** to deselect it until the checkmark disappears.

3. Press the **RED(A)** button to select **Edit**.
   Edit menu is displayed.

4. Press the ▲▼ buttons to select **Protection**, then press the **OK** or ► button.

5. Press the ◄► buttons to select **On**, then press the **OK** button.
   The key icon on the information window for the selected entry changes to the locked status. (🔓→🔒)

6. If you want to cancel the Protection, select **Off** in step 5 and press the **OK** button. The key icon changes to the unlocked status.
   (🔒 →🔓)

> ■ If you select "Select All" in the Edit menu, all title will be checked.
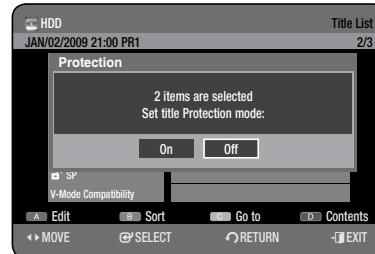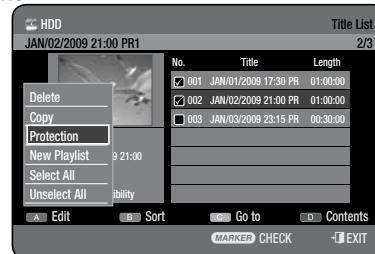
Deleting a Title

Follow these instructions to delete an entry from the Title List.

Using the TITLE LIST button

1. With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.
2. Press the ▲▼ buttons to select an entry you want to delete in the Title List, then press the **MARKER** button until a checkmark appears. Repeat this step to select an additional title you want to delete.
   - If you don't want to delete a certain one of the checked entries, simply select that entry and press **MARKER** to deselect it until the checkmark disappears.
3. Press the **RED(A)** button to select **Edit**.
   Edit menu is displayed.
4. Press the ▲▼ buttons to select **Delete**, then press the **OK** or ▶ button.
   - The message may be different depending on the type of disc. You will be prompted with the confirmation message.
     HDD, DVD-RAM(VR mode), DVD-RW(VR mode): If a Playlist is present, the message "Do you want to delete? (Related playlists may be deleted.)" is displayed.
     DVD-RW(V mode)/+RW/±R: If a Playlist is not present, the message "Do you want to delete?" is displayed.
5. Press the ◀▶ buttons to select **Yes**, then press the **OK** button.
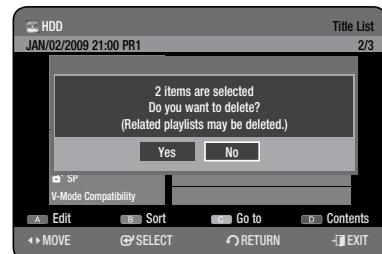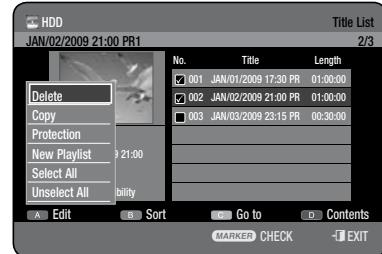
📖 ▪ You cannot delete a protected entry. If you want to delete a protected entry, select "Off" in the Title Protection menu. (See page 80)

▪ When the Disc Protection has been set to Protected, you cannot delete titles. (See page 94)

▪ Once an entry is deleted from the Title List it cannot be recovered.

▪ Once DVD-RW/±R is finalised, it cannot be deleted.

▪ With DVD±R, titles are only deleted from the menu, however, the Title remains physically on the disc.

▪ If you select "Select All" in the Edit menu, all title will be checked.

● EDITING

editing

## Splitting a Section of a Title (Split)

Follow these instructions to split a section of a Title List entry into two titles.

Using the TITLE LIST button

1. With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.

2. Press the ▲▼ buttons to select an entry you want to Split from the Title List, then press the **RED(A)** button.
   The Edit menu is displayed.

3. Press the ▲▼ buttons to select **Split**, then press the **OK** or ▶ button.

4. Using the playback-related buttons (**PLAY** (▶)), **SEARCH** (◀◀)(▶▶)), move to a point for splitting and press the **OK** button.
   If it is not the point where you want to split, press the **RETURN** button to cancel the selection. Using the playback-related buttons, move to a point to split and press the **OK** button.

5. Press the **OK** button to select **Split**.

6. Press the ◀▶ buttons to select **Yes**, then press the **OK** button.
   The split title is divided into two, and the following titles will be shifted down by one.
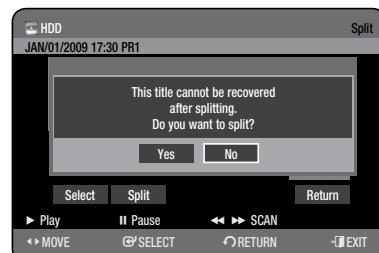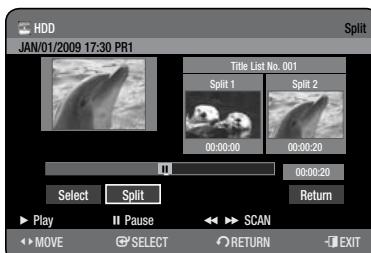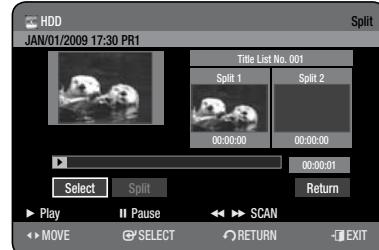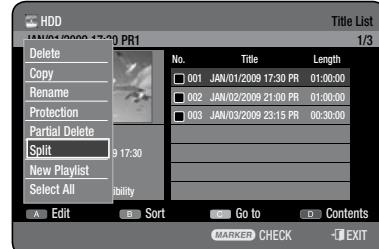
## Deleting a Section of a Title (Partial Delete)

(VR mode)

Follow these instructions to delete a section of a Title List entry.

Using the TITLE LIST button

1. With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.

2. Press the ▲▼ buttons to select an entry you want to edit from the Title List, then press the **RED(A)** button.
   The Edit menu is displayed.

3. Press the ▲▼ buttons to select **Partial Delete**, then press the **OK** or ▶ button.
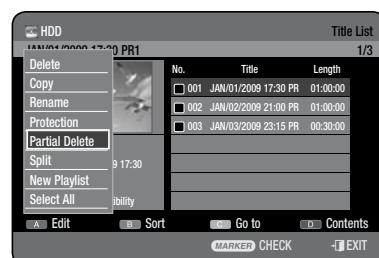
4. Press the **OK** button at the starting point.
The image and starting point time is displayed in the section deletion starting point window.
  - Select the start and end points of the section you want to delete using the playback related buttons.
  - Playback related buttons : (**PLAY** (▶), **PAUSE** (❙❙), **SEARCH** (◀◀▶▶)).

5. Press the **OK** button at the end point.
The image and end point time is displayed in the Section deletion ending point window.

6. Press the ◀▶ buttons to select **Delete**, then Press the **OK** button.

7. Press the ◀▶ buttons to select **Yes**, then press the **OK** button.
The selected section has been deleted.

8. Press the ◀▶ buttons to select **Return**, then press the **OK** button to finish the operation.

⬛ ■ The length of the section to be deleted must be at least 5 seconds long.

  ■ End point cannot be marked earlier than start point

  ■ The section cannot be deleted when it includes a still picture.

  ■ Press the **EXIT** (⬛) button after the operation has finished.
 The Title List screen will disappear.
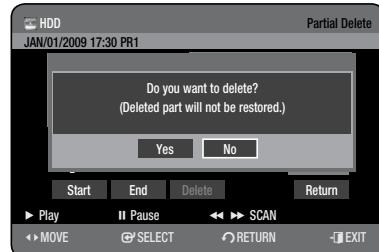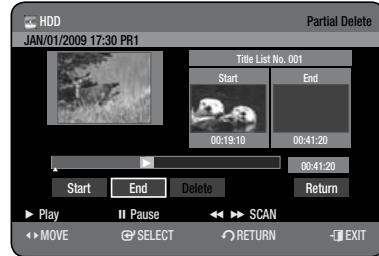
USING THE SORT FUNCTION (TITLE LIST)

When you need to change the Sort order of Title List.

1. While the list menu is displayed, press the **GREEN(B)** button to select **Sort**.

2. Press the ▲▼ buttons to select the desired item, then press the **OK** or ▶ button.
  - **Date** : In order of when the titles were recorded
  - **Name** : In alphabetical order
  - **Length** : In order of recorded title length.
  - **Channel Info** : In order of Channel information.

⬛ ■ You can sort by Date, Name, Length, Channel info. Sorted list will be resorted in copied order upon reentering Title List.
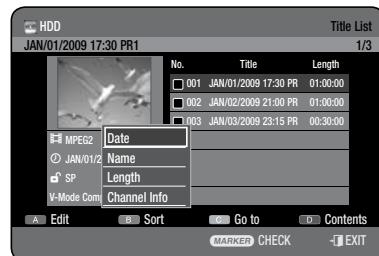
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NAVIGATION MENU

Time Navigation

Using this function, you can search scene minute-by-minute from the recorded title list.

**Using the TITLE LIST button**

1. With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.
2. Press the ▲▼ buttons to select an entry you want to play from Title List, then press the **YELLOW(C)** button.
3. Press the ▲▼ buttons to select **Time Navigation**, then press the **OK** or ► button.
4. Press the ◄► buttons to skip one minute at a time and search the desired scene, then press the **OK** or **PLAY** (⊙) button.

📝 ▪ Cursor does not move if the selected recorded title is shorter than 1 minute.

▪ The Navigation function may not work on a disc that has not been recorded by this device.

▪ An edited title may not display the exact search time.
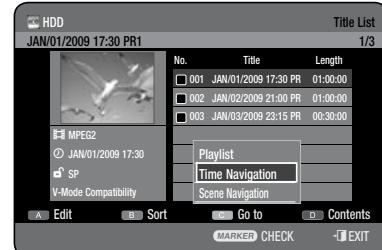
Scene Navigation

If there is a title composed of markers (See page 55), you can search the desired scene using the Scene Navigation.

Using the TITLE LIST button

1. With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.
2. Press the ▲▼ buttons to select an entry you want to play from Title List, then press the **YELLOW(C)** button.
3. Press the ▲▼ buttons to select **Scene Navigation,** then press the **OK** or ► button.
4. Press the ▲▼◄► buttons to select desired scene, then press the **OK** or **PLAY** (⊙) button.

📝 ▪ Scene Navigation will not operate if a selected title does not have Markers.
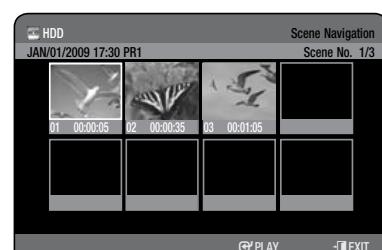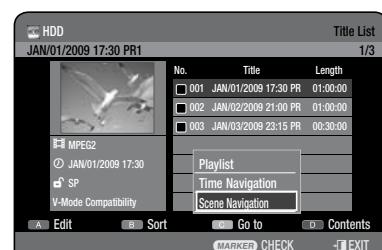
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SELECT CONTENTS

1. Press the **BLUE(D)** button to select **Contents**.

2. Press the ▲▼ buttons to select the contents you want to move, then Press the **OK** or ► button.

   ✎ ▪ This function is possible only when the disc contains the selected contents.
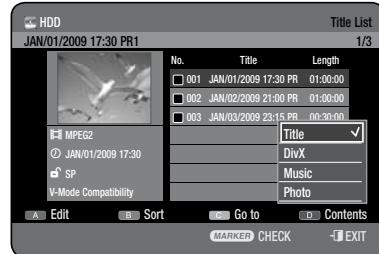
ADVANCED EDITING (PLAYLIST)

Creating a Playlist

Follow these instructions to create a new playlist entry from a recorded title.

Using the TITLE LIST button

1. With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.

2. Press the **RED(A)** button.
   The Edit menu is displayed.

3. Press the ▲▼ buttons to select **New Playlist**, then press the **OK** or ► button.
   The Make Playlist screen is displayed.

4. Press the **OK** button at the start point.
   - The image and time at the start point is displayed on the **Start** window.
   - The yellow-coloured selection bar moves to the **End** item.
   - Select the starting point of the section from which you want to create a new scene using the playback related buttons (**PLAY** (◉), **SEARCH** (◀◀▶▶), **SKIP** (◀◀▶▶)).

5. Press the **OK** button at the end point.
   - The image and end point time is displayed in the **End** window.
   - The yellow-coloured selection bar moves to the Make item.

6. Press the ◄► buttons to select **Make**, then press the **OK** button.
   - To make a scene for the playlist.
     A new Make scene screen is displayed. Repeat steps 4~6 to make a new scene for the playlist.
     A new scene will be added to the current playlist.
     You can check and see all the scenes on the Edit playlist screen. (See page 87)
   - To make a new playlist.
     Repeat steps 1~6 if you want to make a new playlist.

7. Press the ◄► buttons to select **Return**, then press the **OK** button to finish the operation.

   ✎ ▪ You can create up to 99 playlist entries.

   ▪ Depending on the kind of disc, the displayed screen may have a slight difference.
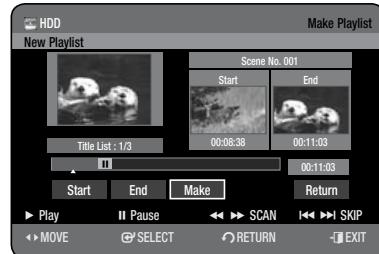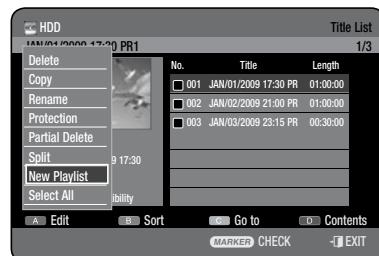
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Playing Entries in the Playlist

HDD DVD-RAM DVD-RW
(VR mode)

Follow these instructions to play the playlist entries.

Using the PLAY LIST button

1. With the unit in Stop mode/Playback mode, press the **PLAY LIST** button.
2. Press the ▲▼ buttons to select the playlist you want to play, then press the **OK** or **PLAY** (⊙) button.
3. Press the **STOP** (⊙) button to stop playing.
   The screen returns to the Playlist screen.
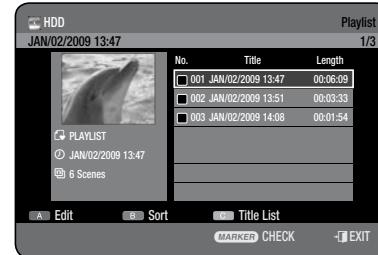
Renaming a Playlist Entry

HDD DVD-RAM DVD-RW
(VR mode)

Follow these instructions to rename a playlist entry, i.e. to edit the title of a playlist entry.

Using the PLAY LIST button

1. With the unit in Stop mode/Playback mode, press the **PLAY LIST** button.
2. Press the ▲▼ buttons to select the title you want to Rename from the Playlist, then press the **RED(A)** button.
   The Edit menu is displayed.
3. Press the ▲▼ buttons to select **Rename**, then press the **OK** or ► button.
   The Rename screen is displayed.
4. Select the desired characters using the ▲▼◄► buttons, then press the **OK** button.
   - **Back Space (RED(A) button) :** Deletes and moves the cursor backwards by one position.
   - **Space (GREEN(B) button) :** Enters a blank and moves the cursor one forward (to the right).
   - **Clear (YELLOW(C) button) :** Deletes all the character inputs.
   - **Save (BLUE(D) button) :** Registers the character inputs.
5. Press the **BLUE(D)** button to select **Save**.
   The changed title is displayed in the title field of the selected playlist entry.

Editing a Scene for the Playlist

Follow these instructions to edit scenes for a playlist.

Using the PLAY LIST button

1. With the unit in Stop mode/Playback mode, press the **PLAY LIST** button.

2. Press the ▲▼ buttons to select the title you want to edit from the Playlist, then press the **RED(A)** button.
The Edit menu is displayed.

3. Press the ▲▼ buttons to select **Edit Playlist**, then press the **OK** or ► button.
The Edit Playlist screen is displayed.
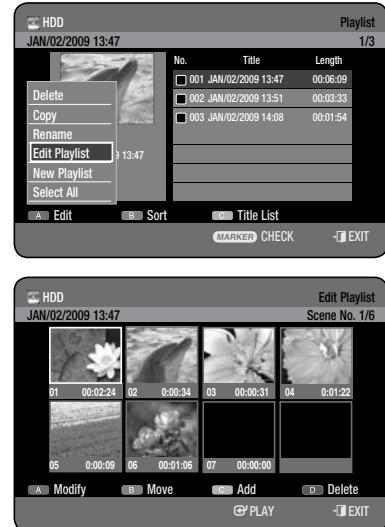
Playing a Selected Scene

4. Press the ▲▼◄► buttons to select the scene you want to play, then press the **OK** or **PLAY** (⊙) button.
The selected scene is played.
- To stop scene play, press the **STOP** (⊙) button.

Modifying a Scene (Replacing a Scene)

To setup, follow steps 1 to 3.

4⁻¹. Press the ▲▼◄► buttons to select the scene you want to Modify, then press the **RED(A)** button.
The Modify Scene screen is displayed.

5. Press the **OK** button at the start point of the scene.
- The image and starting point time is displayed on the **Start** window.
- Select the starting or ending point of the section you want to modify using the playback related buttons (**PLAY** (⊙), **SEARCH** (⊙⊙), **SKIP** (⊙⊙)).

6. Press the **OK** button at the end point of the scene.
- The image and ending point time is displayed in the **End** window.

7. Press the ◄► buttons to select **Change**, then press the **OK** button.
- The scene you want to modify is changed with the selected section.
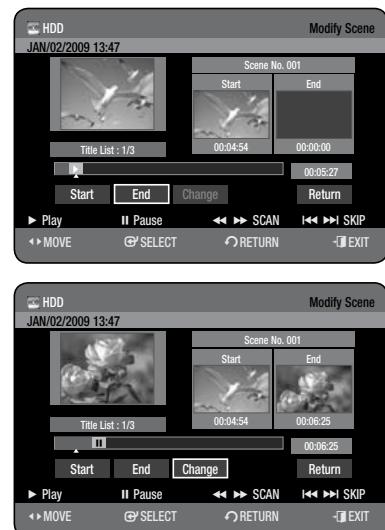
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Moving a Scene (Changing the Position of a Scene)

To setup, follow steps 1 to 3 on page 87.

4⁻¹. Press the ▲ ▼ ◄ ► buttons to select the scene you want to move (change the position), then press the **GREEN(B)** button.
  • A yellow selection window is displayed on the scene to be moved.

5. Press the ▲ ▼ ◄ ► buttons to select the position to which you want to move the selected scene, then select the **OK** button.


✎ ▪ You cannot move the selected scene to the position of the next scene, because the selected scene should be inserted before that position, which requires no action.

  ▪ Depending on the kind of disc, the displayed screen may have a slight difference.
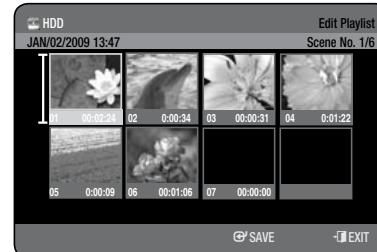
Adding a Scene

To setup, follow steps 1 to 3 on page 87.

4⁻¹. Press the ▲ ▼ ◄ ► buttons to select the scene that will have a new scene inserted before it, then press the **YELLOW(C)** button. The Add Scene screen is displayed.

5. Press the **OK** button at the starting point of the scene.
  • The image and starting point time is displayed on the **Start** window.
  • Select the starting or ending point of the section you want to modify using the playback related buttons (**PLAY** (⊙), **SEARCH** (⊙⊙), **SKIP** (⊙ ⊙)).

6. Press the **OK** button at the end point of the scene.
  • The image and end point time are displayed in the **End** window.
  • To cancel, press the ◄► buttons to select **Return**, then press the **OK** button.

7. Press the ◄► buttons to select **Add**, then press the **OK** button.
  • The section you want to add is inserted prior to the scene selected in step 4⁻¹ of Adding a Scene.
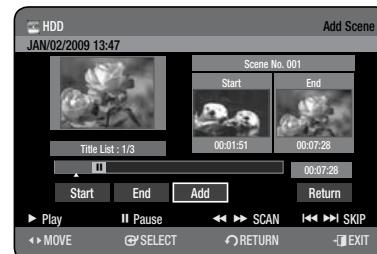
Deleting a Scene

To setup, follow steps 1 to 3 on page 87.

4⁻¹. Press the ▲ ▼ ◄► buttons to select the scene you want to delete, then press the **BLUE(D)** button.
  • The message "Do you want to delete the scene?" is displayed.

5. Press the ◄► buttons to select **Yes**, then press the **OK** to delete the selected scene.
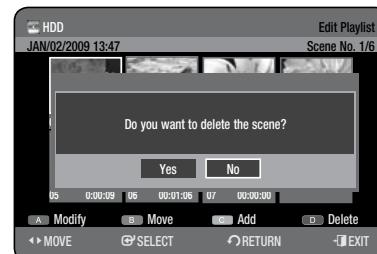
Deleting a Playlist Entry from the Playlist

Using the PLAY LIST button

1. With the unit in Stop mode/Playback mode, press the **PLAY LIST** button.

2. Press the ▲▼ buttons to select an entry you want to delete in the **Playlist**, then press the **MARKER** button until a checkmark appears. Repeat this step to select an additional title you want to delete.

  • If you don't want to delete a certain one of the checked entries, simply select that entry and press the **MARKER** button to deselect it until a checkmark disappears.

3. Press the **RED(A)** button to select **Edit**.
Edit menu is displayed.

4. Press the ▲▼ buttons to select **Delete**, then press the **OK** or ▶ button.

  • You will be prompted with the delete confirmation message "Do you want to delete?".

5. Press the ◀▶ buttons to select **Yes**, then press the **OK** button.
You will be automatically returned to the Playlist screen after the delete operation has finished.

  ✏ ▪ If you select "Select All" in the Edit menu, all title will be checked.
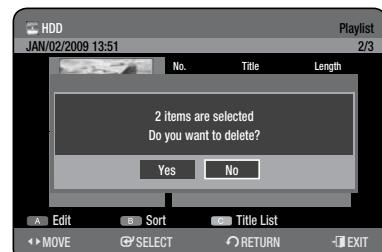
Using the Sort (Playlist)

When you need to change the Sort order of Playlist, you can change it simply.

1. While the list menu is displayed, press the **GREEN(B)** button to select **Sort**.

2. Press the ▲▼ buttons to select the desired item, then press the **OK** or ▶ button.

  • **Date** : In order of when the playlists were created
  • **Name** : In alphabetical order

  ✏ ▪ You can sort by Date, Name. Sorted list will be resorted in copied order upon reentering Playlist.

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COPYING FROM HDD TO DVD OR VICE-VERSA

About the Copy Screen
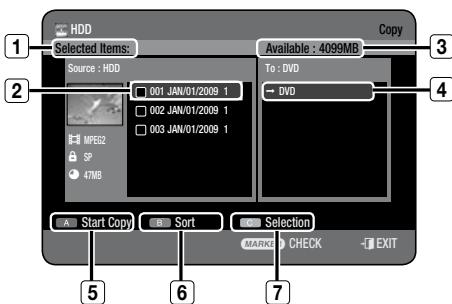
1	Total size and number of selected titles for copying
2	Title to be copied
3	This shows available disc space
4	The location where the copied files are stored
5	Copy start button
6	Sort button (Date, Name, Length, Channel Info)
7	Selection button - **Select All** : All entries in the current folder will be checked. - **Unselect All** : All checked entries will be unchecked.

Contents Copy Specifications

Contents	HDD ➞ DVD	DVD ➞ HDD
Recorded Video Title	Supported	Supported
Copy Protected Title	Not supported	Not supported
Copy Once Title	Move (Deletes the Title in the HDD after copying)	Not supported

The Copy is possible only with CPRM-Compatible disc.

Once "Copy Once programme" has been recorded on the DVD disc, this title cannot be copied to HDD anymore.

But "Copy Once programme" has been recorded on the HDD, this title can be copied to DVD-RW(VR mode) or DVD-RAM.

Using the TITLE LIST button

1. Press the **OPEN/CLOSE** button and place a recordable disc on the disc tray.
2. Press the **OPEN/CLOSE** button to close the disc tray. Wait until **LOAD** disappears from the front panel display. Check that the disc has enough available space for the recording.
3. Select a desired mode by pressing the **HDD** or **DVD** button on the remote control.
   You can also select a desired mode by pressing the **HDD/DVD** button on the front panel.
4. With the unit in Stop mode/Playback mode, press the **TITLE LIST** button.
5. Press the **COPY** button. Copy screen is displayed.
   • During Playback, you can also copy the title by pressing the **COPY** button.
6. Press the ▲▼ buttons to select the title you want to copy, then press the **MARKER** button until a checkmark appears.
   Repeat this step to select an additional title you want to copy.
   • If you don't want to copy a certain one of the checked entries, simply select that entry and press **MARKER** button to deselect it until the checkmark disappears.
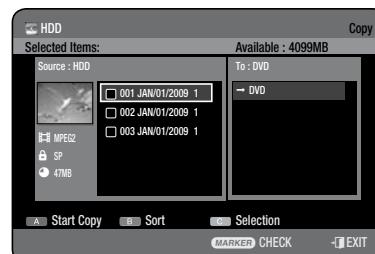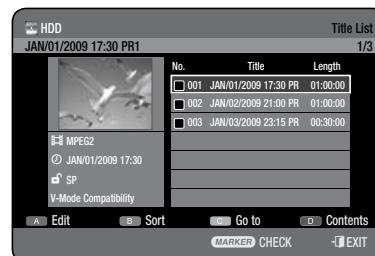
7. Press the **RED(A)** button to select **Start Copy**.
   - The title to be copied is not displayed on the screen, and copying begins while the currently broadcasting programme is displayed on the screen.
   - Press the **INFO** button to view the copy processing bar. If you press **INFO** button again, copy processing bar will disappear.
   - To cancel the copying in progress, press the **RED(A)** button.
8. After a successful copy, "The title is successfully copied" message is displayed.

DVD-Video Copy

1. Press the **OPEN/CLOSE** button and place a DVD-Video disc on the disc tray.
2. Press the **OPEN/CLOSE** button to close the disc tray.
3. During the playback, press the **COPY** button. Copy will be started.

✎ ▪ The Copy function will be disabled in the following cases :
   - If you try to copy in the section of a menu.
   - NTSC disc or copy-protected disc
   - Titles that are different in the broadcasting system.
   - The audio title that is copied to the HDD will be recorded in the 2ch AC3 format.
   - For the audio output in DTS mode, the audio source will not be copied.

COPYING MP3, JPEG OR DIVX

Contents Copy Specifications

Contents	HDD ➜ DVD or USB	DVD ➜ HDD or USB	USB ➜ HDD or DVD
MP3	Supported	Supported	Supported
JPEG(photo)	Supported	Supported	Supported
DivX	Supported	Supported	Supported
CD-DA	Not supported	Supported	Not supported

- Disc(CD-R/ CD-DA/ CD-RW/ DVD-RAM/ DVD±R(Finalise)/ DVD+RW/ DVD-RW(Finalise)) ➜ HDD or USB
- HDD ➜ DVD-R, DVD-RW(V) or USB
- USB ➜ HDD or DVD-R, DVD-RW(V)
- PTP USB is not available when you copy to USB.
- If the disc is finalised through Disc Manager, it can be compatible with PC as a disc with a UDF file system.

File Copy

1. Insert a JPEG disc, MP3 disc or DivX disc into the disc tray.
2. Press the **OPEN/CLOSE** button to close the disc tray. Wait until **LOAD** disappears from the front panel display. Check that the disc has enough available space for the recording.
3. Press the ▲▼ buttons to select **Library**, then press the **OK** or ▶ button.
4. Press the ▲▼ buttons to select **Music**, **Photo** or **DivX**, then press the **OK** or ▶ button.
5. Press the **COPY** button. Copy screen is displayed.
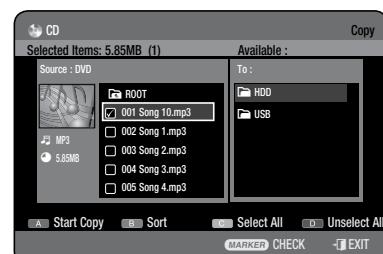
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6. Press the ▲▼ buttons to select the MP3, Photo or DivX file you want to copy, then press the **MARKER** button until a checkmark appears.
   - If you don't want to copy a certain one of the checked entries, simply select that entry and press the **MARKER** button to deselect it until the checkmark disappears.

7. Press the ►▲▼ buttons to select the target media,then press the **OK** button.
   - You can create a new folder by pressing the **GREEN(B)** button.

8. Press the **RED(A)** button to select **Start Copy**.
   The message "Number of file : x" is displayed.

9. Press the ◄► buttons to select **Start**, then press the **OK** button.
   File copy begins.
   - To cancel the copying in progress, press the **EXIT** (⊙) button.
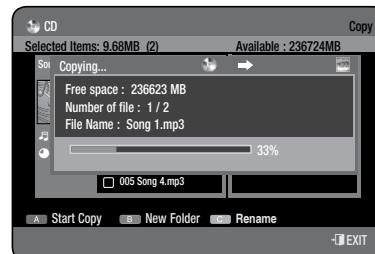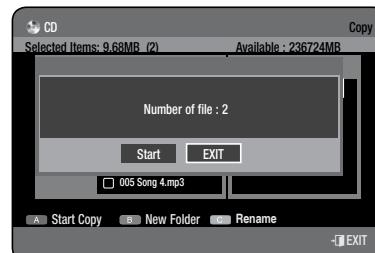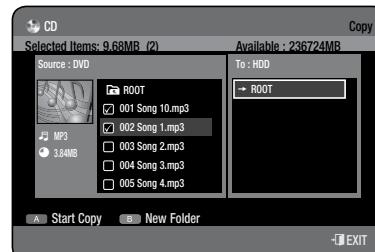
Folder Copy

1. Insert a Disc (JPEG, MP3 or DivX) into the tray.

2. Press the ▲▼ buttons to select **Library**, then press the **OK** or ► button.

3. Press the ▲▼ buttons to select **Music**, **Photo** or **DivX** then press the **OK** or ► button.
   MP3, JPEG or DivX folder is displayed.

4. Press the **COPY** button. Copy screen is displayed.

5. Press the ▲▼ buttons to select the folder you want to copy, then press **MARKER** button until a checkmark appears.
   - If you don't want to copy a certain one of the checked folders, simply select that entry and press **MARKER** button to deselect it until the checkmark disappears.

6. Press the ►▲▼ buttons to select the target media,then press the **OK** button.
   - You can create a new folder by pressing the **GREEN(B)** button.

7. Press the **RED(A)** button to select **Start Copy**.
   The message "Number of file : x" is displayed.

8. Press the ◄► buttons to select **Start**, then press the **OK** button.
   Folder copy begins.
   Subfolders and files in the selected folder are copied.
   - To cancel the copying in progress, press the **EXIT** (⊙) button.
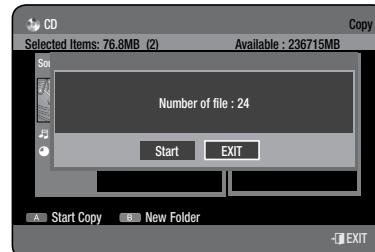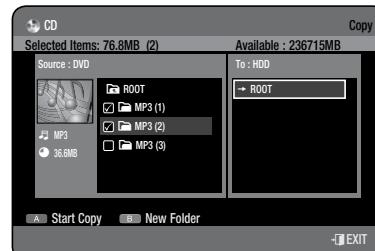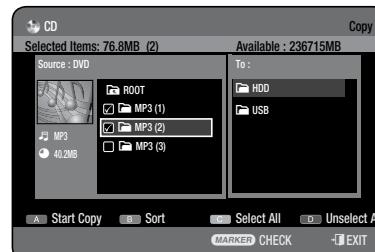
✎ ▪ Pressing the **EXIT** (◉) button during folder copying will cancel the folder copying after the current file is copied.

  ▪ You can copy up to 500 files or 500 sub folders to one folder. [MP3, JPEG, DivX]

  ▪ If you want to copy a file, you should create a new folder before starting a copy.
    You cannot copy to top-level(ROOT) folder directly without creating a new folder.

  ▪ If the top-level (ROOT) folder has had already 500 folders, you should delete one or more items before you can create a new folder.

  ▪ File size on a disc and the copied file in the HDD may be slightly different due to the file system.

  ▪ If you check some entries in the current folder and move to open a different folder, those entries are automatically unchecked and excluded from the selection list.

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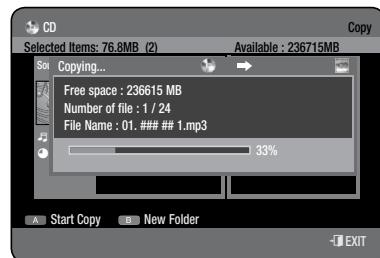
CHANGING THE NAME OF MUSIC/PHOTO/DIVX FILE

You can rename a Music, Photo or DivX file copied to HDD.

1. Press the ▲▼ buttons to select the entry you want to rename, then press the **RED(A)** button.

2. Press the ▲▼ buttons to select **Rename**, then press the **OK** or ► button.
   Rename Screen is displayed.

3. Select the desired characters using the ▲▼◄► buttons, then press the **OK** button.
   • **Back Space (RED(A) button):** Deletes and moves the cursor backwards by one position.
   • **Space (GREEN(B) button):** Enters a blank and moves the cursor one forward (to the right).
   • **Clear (YELLOW(C) button):** Deletes all the character inputs.
   • **Save (BLUE(D) button):** Registers the character inputs.

4. Press the **BLUE(D)** button to select **Save**.
   The changed file name is displayed on the selected entry.

English _**93**
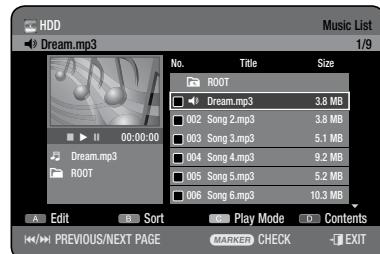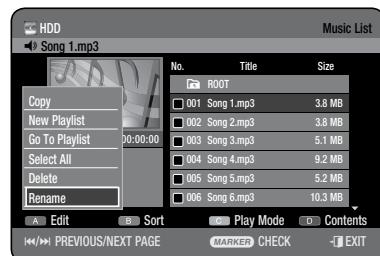
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DISC MANAGER

Editing the Disc Name

Follow these instructions to give a name to a disc.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Disc Manager**, then press the **OK** or ► button.
3. Press the ◄► buttons to select **Rename**, then press the **OK** button.
   The Rename screen is displayed.
4. Select the desired characters using the ▲▼◄► buttons, then press the **OK** button.
5. Press the **BLUE(D)** button to select **Save**.
   A disc name is given to the disc.

   ✎ ▪ You may need to clear Disc Protection beginning editing.
   ▪ Depending on the kind of disc, the displayed screen may be different.
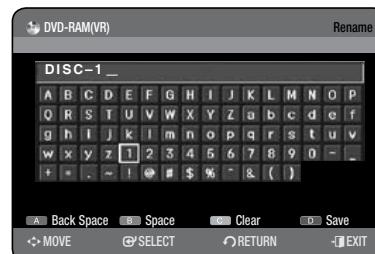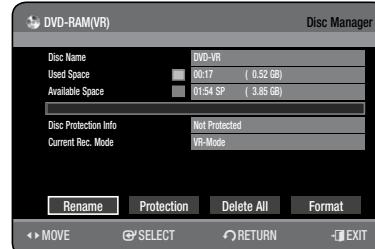
Disc Protection

Disc Protection allows you to protect your discs from being formatted or deleted due to unintended operations.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Disc Manager**, then press the **OK** or ► button.
3. Press the ◄► buttons to select **Protection**, then press the **OK** button.
4. Press the ◄► buttons to select **On**, then press the **OK** button.

Delete All Title Lists

DVD-RAM DVD-RW DVD-R DVD+RW DVD+R
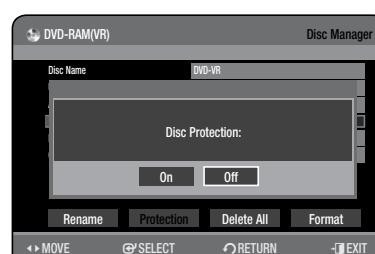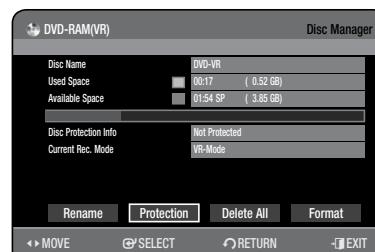
1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Disc Manager**, then press the **OK** or ► button.
3. Press the ▲▼◄► buttons to select **Delete All**, then press the **OK** button.
   - You will be prompted with the confirmation message "Do you want to delete all title lists?".
   - When Protected Entry exists: The Delete All Title List function will not operate. If there is a title containing a still picture, however, that function will not operate.
     If you want to delete a protected entry, disable Protect for it on the Lock item.
   - When protected a DVD-RAM/-RW is used, data cannot be deleted from a disc.
   - If you select **Yes**, you will be prompted with the confirmation message "All playlists will also be deleted. Do you want to continue?".
4. Press the ◄► buttons to select **Yes**, then press the **OK** button. All title lists are deleted.

DVD-RAM(VR)	Disc Manager
Disc Name	DVD-VR
Used Space	00:17 (0.52 GB)
Available Space	01:54 SP (3.85 GB)
Disc Protection Info	Not Protected
Current Rec. Mode	VR-Mode

Rename Protection Delete All Format
◄►MOVE SELECT RETURN EXIT

DVD-RAM(VR)	Disc Manager
Disc Name	DVD-VR

Do you want to delete all title lists?

Yes No

Rename Protection Delete All Format
◄►MOVE SELECT RETURN EXIT
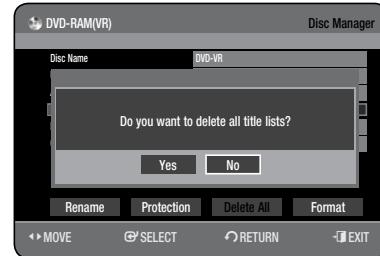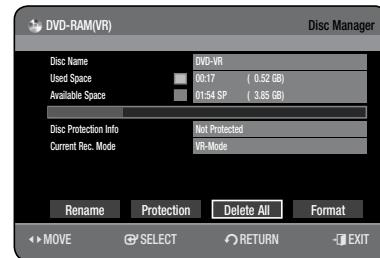
● EDITING

Delete All Title Lists/DivX Lists /Music Lists/Photo Lists

HDD

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Disc Manager**, then press the **OK** or ► button.
3. Press the ◄► buttons to select **Delete**, then press the **OK** button.
   - When Protected Entry exists: The Delete All Title List function will not operate. If there is a title containing a still picture, however, that function will not operate. If you want to delete a protected entry, disable Protect for it on the Lock item.
4. Press the ◄► buttons to select the **Title**, **DivX**, **Music** or **Photo**, then press the **OK** button.
5. Press the ◄► buttons to select **Yes**, then press the **OK** button. All title lists, DivX lists, music lists or photo lists are deleted.

HDD	Disc Manager
Used Space	000:39 (1.68 GB)
Available Space	065:19 XP (231.01 GB)

Delete Format
◄►MOVE SELECT RETURN EXIT

HDD	Disc Manager

Select contents to delete all

Title DivX Music Photo

Delete Format
◄►MOVE SELECT RETURN EXIT

<Title>

HDD	Disc Manager

All playlists will also be deleted.
Do you want to continue?

Yes No

Delete Format
◄►MOVE SELECT RETURN EXIT
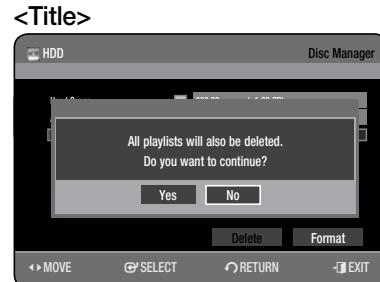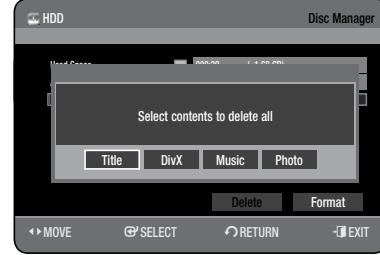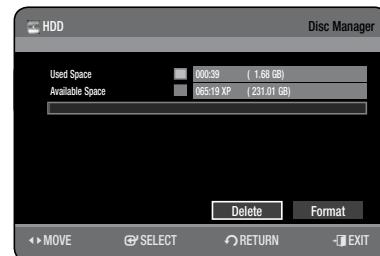
editing

Formatting a Disc

HDD · DVD-RAM · DVD-RW · DVD+RW

Use these instructions to format a disc.
The disc protect should also be cleared.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲ ▼ buttons to select **Disc Manager**, then press the **OK** or ► button.
3. Press the ◄► buttons to select **Format**, then press the **OK** button.
   HDD/ DVD-RAM/+RW
   - You will be prompted with the confirmation message "Current media: ✶✶✶ Do you want to format?".
   - If you select **Yes**, you will be prompted with the confirmation message "All data will be deleted. Do you want to continue?".

   DVD-RW
   - You will be prompted with the confirmation message "Choose the recording format for DVD-RW."
   - If you select the desired format type, you will be prompted with the confirmation message "All data will be deleted. Do you want to continue?".
4. Press the ◄► buttons to select **Yes**, then press the **OK** button. The disc is formatted.

HDD		Disc Manager
Used Space	000:39	(1.68 GB)
Available Space	065:19 XP	(231.01 GB)

Delete   **Format**

◄►MOVE   SELECT   RETURN   EXIT

DVD-VR and DVD-V are defined according to their recording format.

	DVD-VR	DVD-V
DISC	DVD-RAM/-RW	DVD-RW/DVD-R

- With DVD+RW discs, there is no difference between DVD-Video format (Video mode) and DVD-Video Recording format (VR mode).

Finalising a Disc

DVD-RW · DVD-R · DVD+R

After you record titles onto a DVD-RW/±R disc with your HDD & DVD RECORDER, it needs to be finalised before it can be played back on external devices.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲ ▼ buttons to select **Disc Manager**, then press the **OK** or ► button.
3. Press the ▲ ▼ ◄► buttons to select **Finalise**, then press the **OK** button.
   You will be prompted with the message "Do you want to finalise disc?".
4. Press the ◄► buttons to select **Yes**, then press the **OK** button.
   You will be prompted again with the message "Disc will be finalised. Do you want to continue?".
5. Press the ◄► buttons to select **Yes**, then press the **OK** button.
   The disc is finalised.

DVD-RW(VR)		Disc Manager
Disc Name	DVD-VR	
Used Space	00:17	(0.52 GB)
Available Space	01:54 SP	(3.85 GB)
Disc Protection Info	Not Protected	
Current Rec. Mode	VR-Mode	

Rename
Protection   Delete All   **Finalise**   Format

MOVE   SELECT   RETURN   EXIT
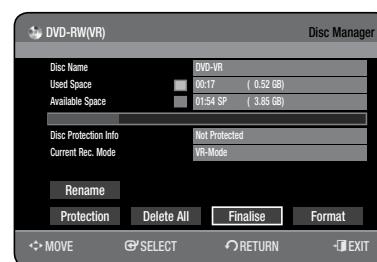
■ Once a disc is finalised, you cannot delete entries from the record list.

■ After being finalised, the DVD±R/-RW(video mode) operates in the same manner as a DVD-Video.

■ Depending on the disc type, the displayed screen may be different.

■ Finalising time may be different depending on the amount of data recorded on the disc.

■ Data on the disc will be damaged if the recorder is powered off during finalisation process.

■ You can finalise the disc automatically using EZ Record. (See page 46)

Unfinalising a Disc (V/VR mode)

1. With the unit in Stop mode, press the **MENU** button.

2. Press the ▲▼ buttons to select **Disc Manager**, then press the **OK** or ► button.

3. Press the ◄► buttons to select **Unfinalise**, then press the **OK** button.
   You will be prompted with the message "Do you want to unfinalise disc?".

4. Press the ◄► buttons to select **Yes**, then press the **OK** button.
   You will be prompted again with the message "Disc will be unfinalised. Do you want to continue?".

5. Press the ◄► buttons to select **Yes**, then press the **OK** button.
   The disc is unfinalised.

	DVD-RW(VR:F)	Disc Manager
Disc Name	DVD-VR	
Current Rec. Mode	VR-Mode	

Unfinalise   Format

◄► MOVE   SELECT   RETURN   EXIT
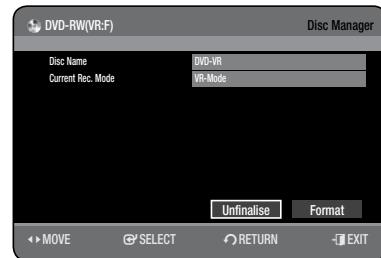
■ A DVD-RW can be finalised or unfinalised in Video mode.

	Finalise	Unfinalise
Mark	DVD-Video(RW)	DVD-RW(V)
Operation	Same as DVD-Video	Additional recording, protection and deletion are possible.

■ A DVD-RW can be finalised or unfinalised in VR mode.

	Finalise	Unfinalise
Mark	DVD-RW(VR:F)	DVD-RW(VR)
Operation	Additional recording, deletion, editing, and protection are impossible.	Additional recording, deletion, editing, and protection are possible.

TROUBLESHOOTING

If your product malfunctions, go through the checkpoints below before contacting a Samsung authorised service centre.

PROBLEM	EXPLANATION/SOLUTION
The input is displayed for a while when the power is turned on.	The HDD & DVD RECORDER requires some time to initialize and the input will be displayed for approx. 10 seconds after it is turned on.
Cannot record TV programmes.	• Check whether the power cord is securely plugged into the power outlet. • Did you set the HDD & DVD RECORDER channel settings correctly? • Check the free space on your HDD/DVD-RAM/±RW/±R discs.
I pressed the REC button but there is no response.	Check available disc type. (See page 66) If a programme is copy protected, it cannot be recorded.
Cannot play the disc.	• Check whether the disc is inserted correctly with the label facing up. • Check the regional code of the DVD disc. • This HDD & DVD RECORDER cannot play some types of discs. (See pages 8, 47)
⊘ icon appears on the screen.	You cannot use this operation or function due to one of the following reasons: (1) Your DVD disc restricts it. (2) Your DVD disc does not support this feature (for example: angles) (3) The feature is not available at the moment. (4) You've requested a title, chapter, or scan time that is out of range.
Play mode settings are different from the settings configured in the Settings menu.	The disc does not support all selected functions. In this case, some settings configured in the settings menu may not work properly.
Cannot change the aspect ratio.	The aspect ratio is fixed for DVD discs. (See page 41)
The angle operation does not work while playing a DVD disc.	The angle operation is available only when the disc contains images captured from different angles.
The selected audio and/or subtitle language is not played.	Audio and subtitle languages are disc-specific. Only the sound and subtitle languages contained on the DVD disc are available and displayed in the disc menu.
Cannot copy title or file to the other mode.	• DVD discs encoded with copy protection can not be copied to HDD. • Refer to "Contents Copy Specifications" on page 6 to check if copying is supported. Refer to "V-Mode Compatibility" on page 46 to check if copying is support.
The disc revolves, but no image or bad quality images is displayed	• Be sure that the Video Setting is properly set. (See pages 41~43) • Check whether there is damage to or any foreign material on your disc. • Some low quality discs may not play properly. • If scenes change from dark to bright suddenly, the screen may shake vertically temporarily, but this is not a fault.
No sound.	• Are you watching a programme in slow or skip mode? If you are playing a programme at a speed other than normal speed, sound will not be heard. (Except for forward search (X 2) in disc.) • Check the connections and settings. (See pages 25~26, 39~40) • Check whether the disc is damaged. Clean the disc, if necessary. • Check whether the disc is inserted correctly with the label facing up.

PROBLEM	EXPLANATION/SOLUTION
No audio output.	Check whether you have selected the correct digital output options in the Audio Output Options menu. (See pages 39~40)
Timer lamp flickers	• Check there is enough space in the disc or HDD for recording. • Check whether the current disc is recordable or not. Make sure to check before the start time of recording.
Timer recording does not work properly.	• Re-check the recording time and the end time settings again. • Recording will be cancelled if the power is interrupted due to a power failure or another similar reason while recording.
Cannot copy into USB or vice-versa	• Check the USB connection.Disconnect and try to connect again. • Refer to "Compatible USB devices at host port"on page 8.
No HDMI output	• Check the Video output is HDMI enabled. • Check the connection between the TV and the HDMI jack of the HDD & DVD RECORDER. • See if your TV supports HDMI.
Abnormal HDMI output screen.	If snow noise appears on the screen, it means that TV does not support HDCP (High-bandwidth Digital Content Protection).
HDMI output Jitter.	• Check your TV system setup correctly. • Please refer to the user's manual of your TV.
The remote control doesn't work.	• Point the remote control at the remote control sensor on your HDD & DVD RECORDER. Allow for proper distance. Remove obstacles between your HDD & DVD RECORDER and the remote control. • Check whether the batteries are drained. • Check whether TV control button is selected or not.
I forgot my password for parental supervision	Press and hold the **PLAY/PAUSE** (▶II) buttons on the front panel for more than 10 seconds with no disc in the unit. All settings including the password will revert to the factory settings. Do not use this unless absolutely necessary.
Is it possible to change a subtitle and an audio signal on a recorded disc?	A recorded disc is played with only the subtitle and the audio signal which were selected during recording
Other problems	• Read the table of contents and then find and read the section describing your problem, follow the instructions given. • Plug your HDD & DVD RECORDER off and on. • If the problem still persists, contact a nearby Samsung service centre.

appendix

SPECIFICATIONS

General	Power requirements	220-240 V AC, 50 Hz (Malaysia, Singapore)
		110-240V AC, 50/60Hz (Indonesia, India, Israel, Vietnam)
	Power consumption	28 Watts / 1 Watts (Power save)
	Weight	3.8 Kg
	Dimensions	420 mm(W) x 300 mm(D) x 55 mm(H)
	Operating temp.	+5 °C to +35 °C
	Other conditions	Keep level when operating. Less than 75% operating humidity
Input	Video	Composite Video : 1.0 V p-p at 75Ω load, sync negative
	Audio	Max.Audio Input Level : 2 Vrms
	DV Input	IEEE 1394(4p) compatible jack
	Receivable Channels	PAL, SECAM-B/G, D/K, I
Output	Audio	Analogue output jacks x 1
		Optical/Coaxial digital audio output
	Video	Composite Video : Video output jack x 1
		Component output x 1 (Y : 1,0Vp-p, P_b : 0,70Vp-p, P_r : 0,70Vp-p at 75Ω load)
		HDMI/DVI (576p, 720p,1080i, 1080p)
Recording	Picture Compression format	MPEG-II
	Audio Compression format	Dolby Digital 2ch/256Kbps, MPEG-II
	Recording Quality	XP (about 8,5 Mbps), SP (about 4,5 Mbps), LP (about 2,5 Mbps), EP (about 1,6 Mbps or about 1,2 Mbps)
	Audio Frequency Response	20 Hz~20 kHz
HDD Capacity	DVD-HR773	160 GB
	DVD-HR775	250 GB
	DVD-HR777	320 GB
USB	USB 2.0 H/S	Host x 1

Audio Output

For DVD discs, audio signals recorded at 96 kHz sampling frequency are converted into and output at 48 kHz.

Disc Type	DVD	AUDIO CD (CD-DA)
Analogue Audio Output	48 / 96 kHz	44,1 kHz
Digital Audio Output	48 kHz	44,1 kHz

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Version 2, June 1991

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Version 2.1, February 1999

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